

Gene Watson Flying Saucers

Stephen Watson

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DEDICATION

This book is dedicated to the inventors.

Thanks for all you do.

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Thanks to inventor Gene Watson who is now retired from crane company living in northern Italy for the sketches and information gathered for this book.

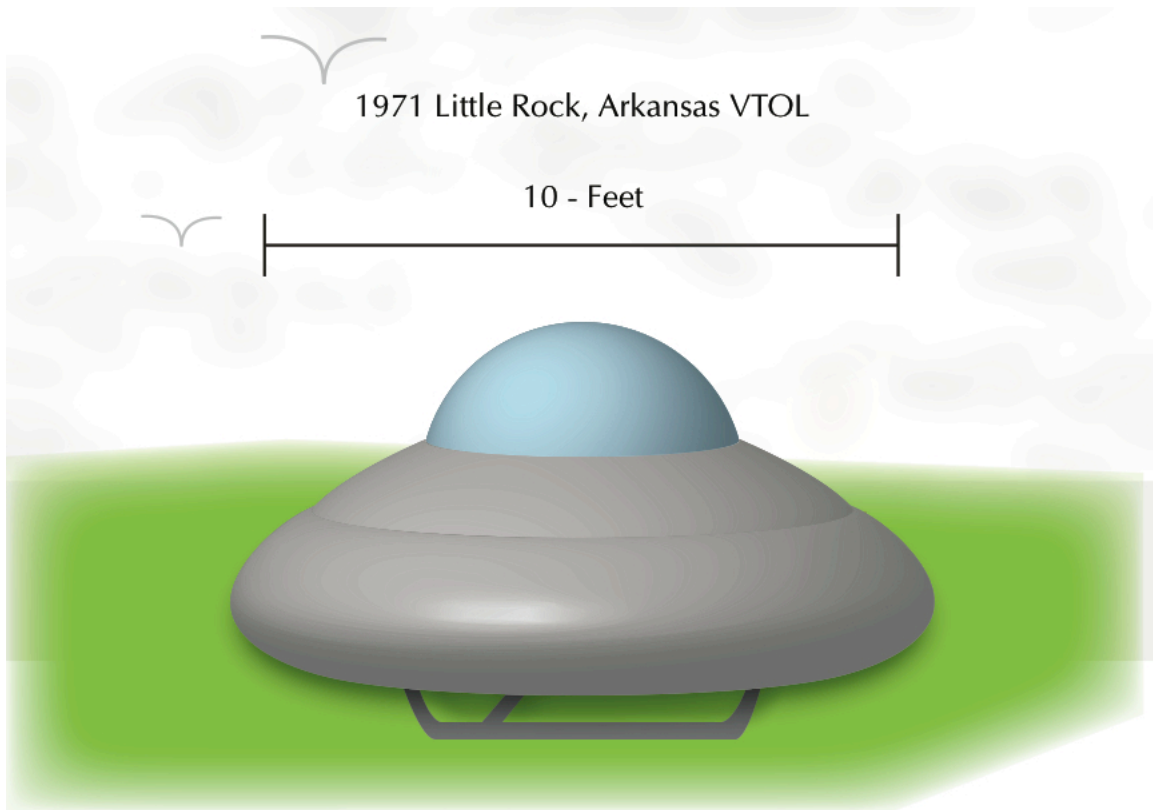
About The Author

Stephen Watson is an artist that resides in New York City.
He was born and raised in Dallas, Texas.

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Distribution

You can find this book on [Amazon.com](https://www.amazon.com)



Built and tested in Little Rock Arkansas 1971 with help from Dr. Bronco at Arkansas Polytech College.

Power: Volvo motor connected to 4 blade 5 foot propeller: gear reduction.

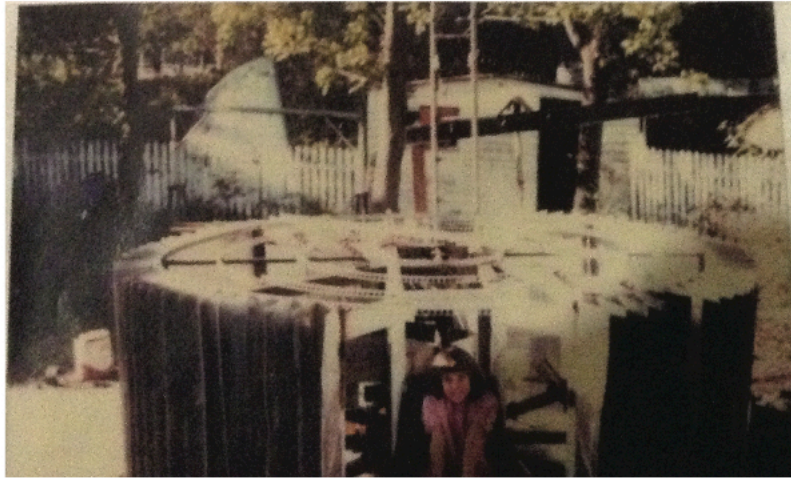
Made front of the Arkansas newspaper. Did the motor turn the blades fast? Yes.

The Federal Aviation Administration ordered not to make it rise above three feet.

This saucer was already 10 foot wide on the campus of Arkansas polytechnic college In Russellville, Arkansas outside the door of the physics building and in the campus yearbook 1970.

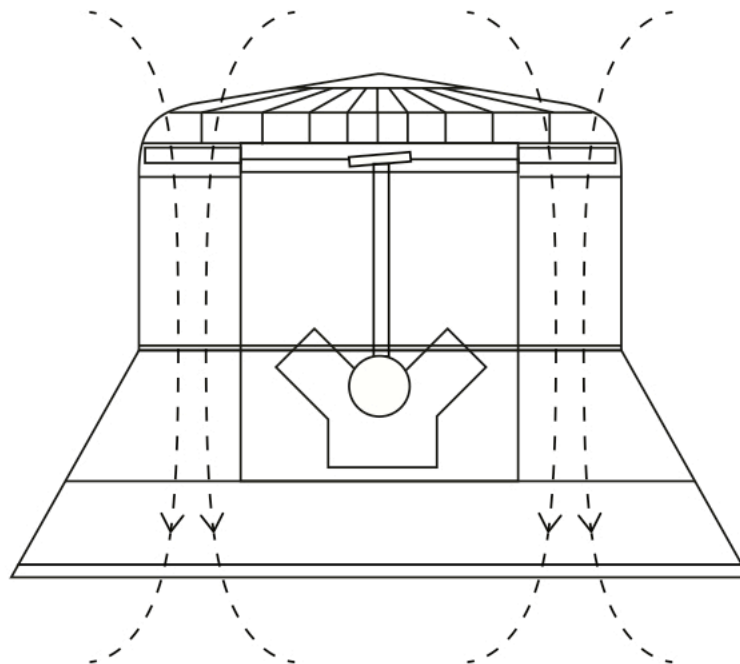
For more information see Page _

The Wylie, Texas Ground Effect Vehicle Circa The 1980s



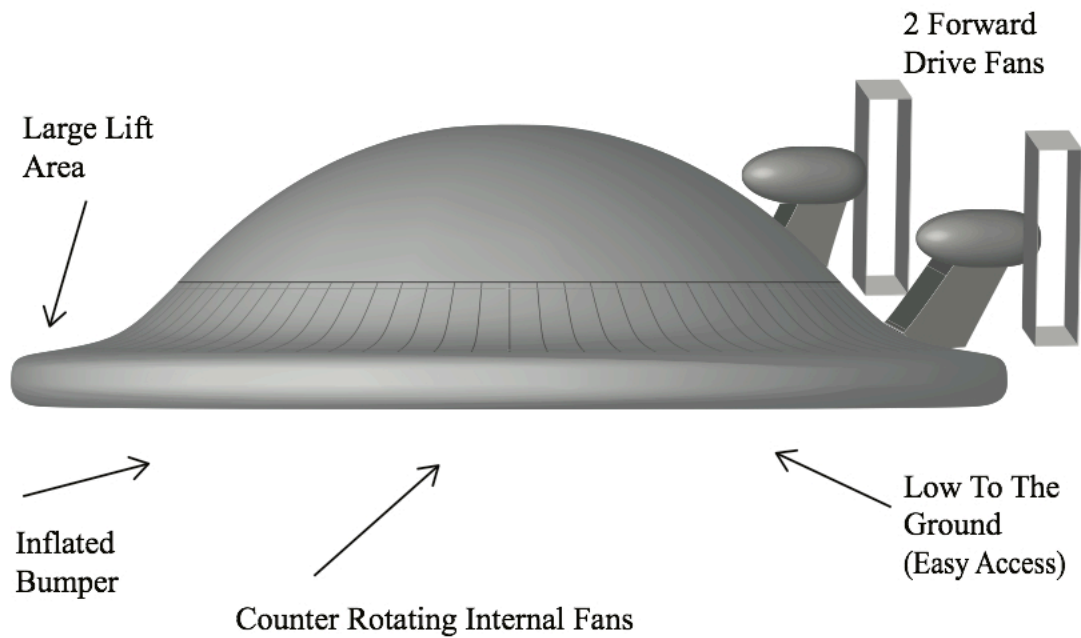
Photograph of bell shaped saucer under construction

It had a V8 ford car motor. Electric start connected to a gear reduction shaft. The shaft spun. The bell skirt permitted me to take my time learning the controls before I floored the gas pedal to rise past treetop but Wylie, Texas never let me finish building it. It was a ground effect vehicle with the capacity to leave vertically ground effect after the pilot built up enough confidence.



For more information see Page _

The Sachse, Texas Saucer - Late 1980s
On Mr. Stone's Farm (Not Completed)



Reason for counter rotating: Centrifugal gyroscopic force cancellation.

Reason for large lift area: Low power to lift ratio saves gas consumption.

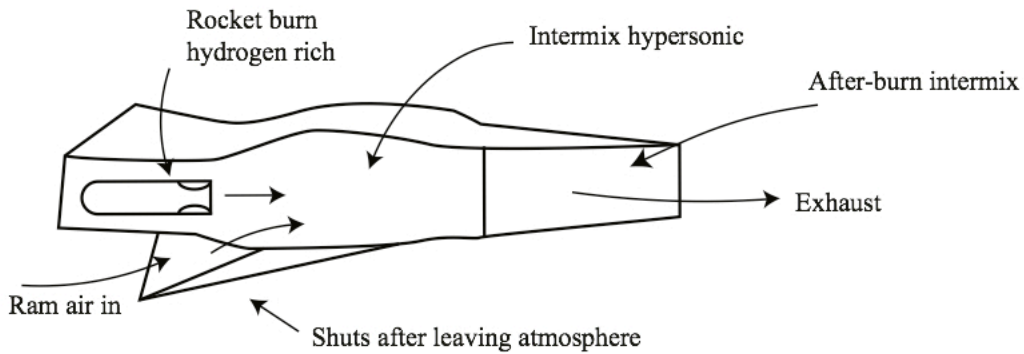
Reason for vanes top & bottom: So three limb wouldn't touch fans.

Reason for inflated bumper: So accidental bumps against objects no harm

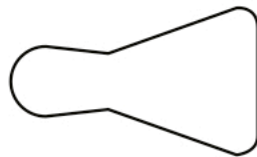
An Example Of Geometric Configuration

Hydrogen has a flame propagation of about Mach 4. This combines radiation, convection, conduction in afterburner.

THIS IDEA IS 50 YEARS OLD



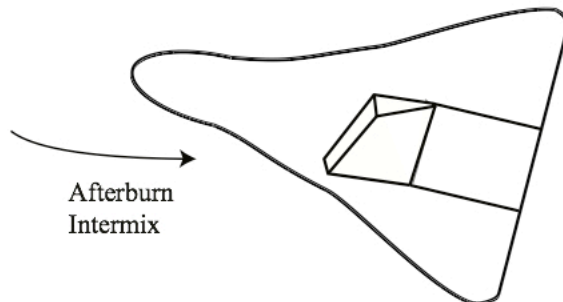
Classical Rocket



Plugnose Aerospike

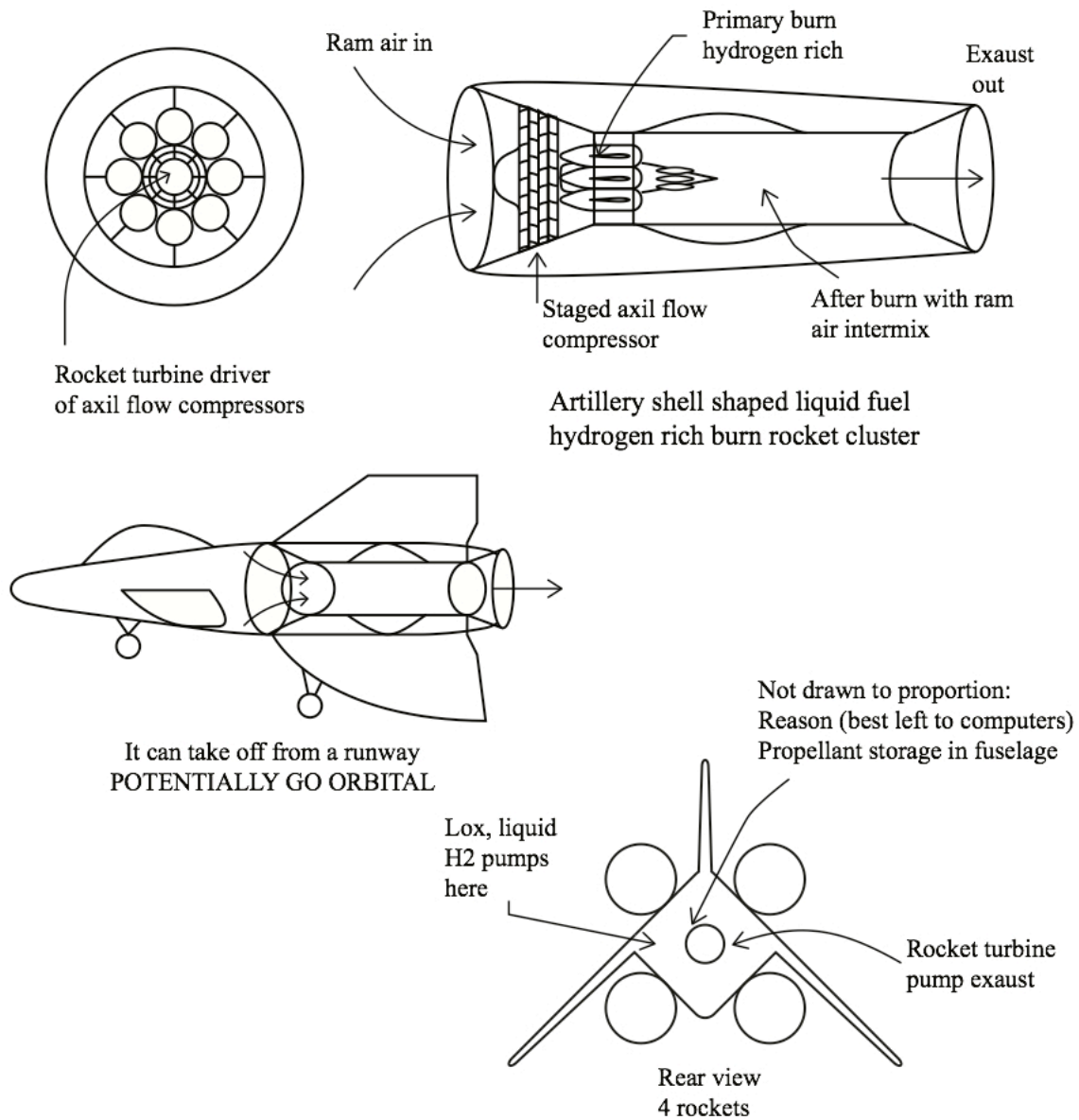


The bottom of my 1962 saucer was aerospike.



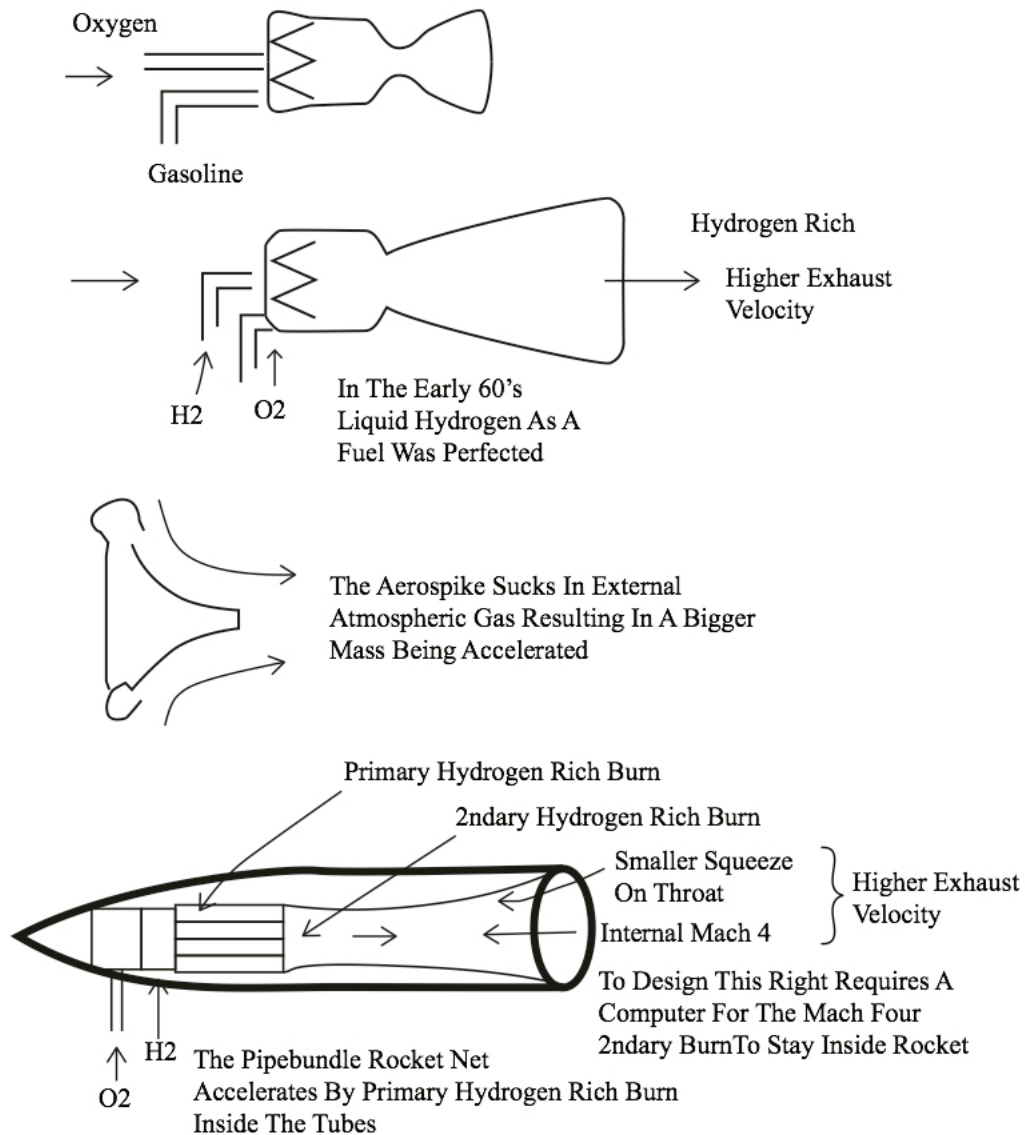
Spaceplane
No staging runway.
Ground to orbital.
Makes the space shuttle
obsolete.
Dr. Bronco had this idea at
Arkansas polytechnic college
In Russelville, Arkansas 1970.

THIS IDEA IS 50 YEARS OLD



I drew a modification to the pipe bundle rocket so it looks like an artillery shell. This means as a shell cluster bundle it replaces the earlier bundle in the four motor rocket plane. I tried to draw only primitive upgrades to the chemical burn rocket concept. Is it primitive enough for your 21st century civilization?

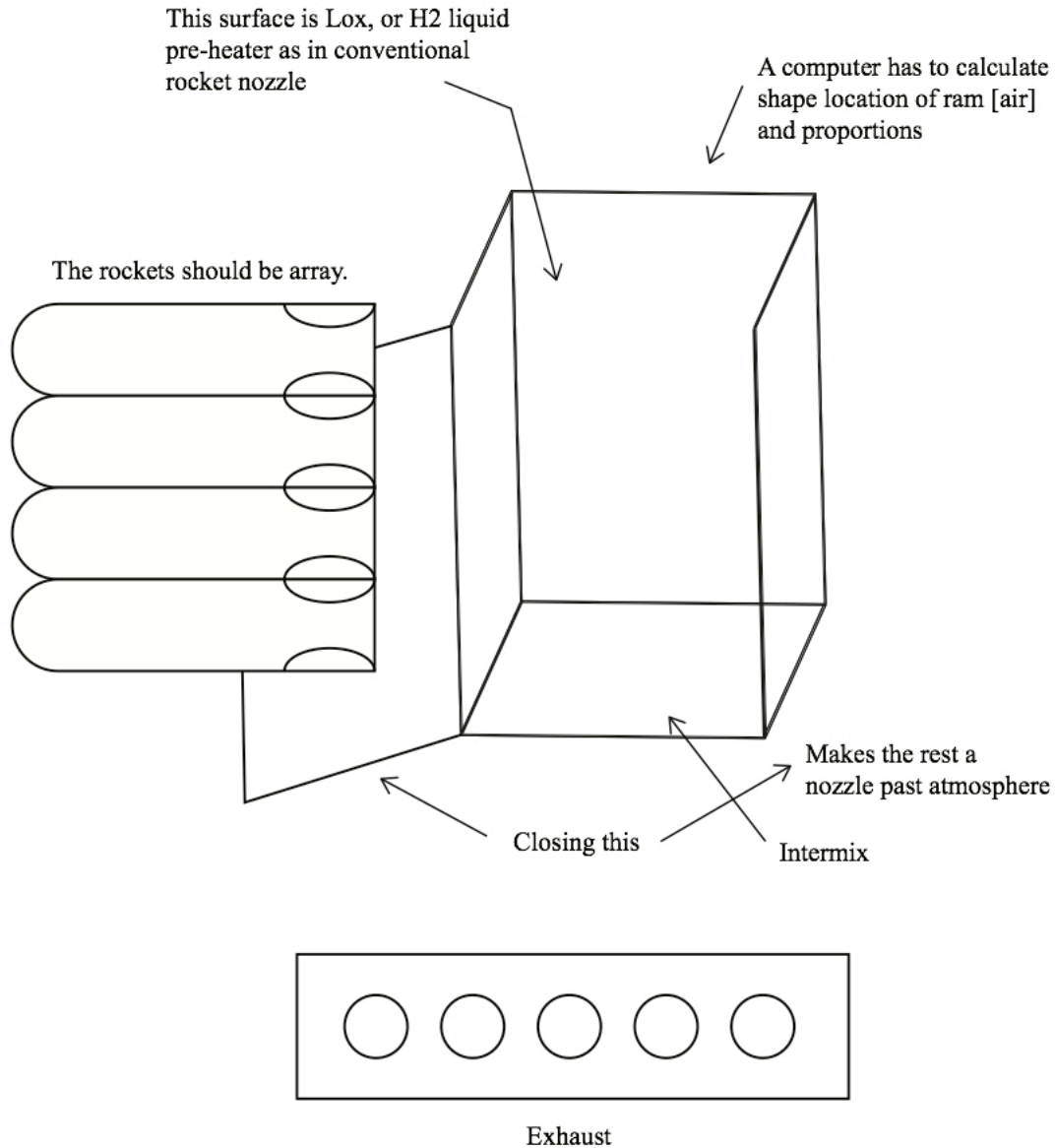
Staged Burn Principle



Intensify pump pressure to cause higher combustion pressure and a larger nozzle. The throat is a choke that makes the internal burn subsonic.

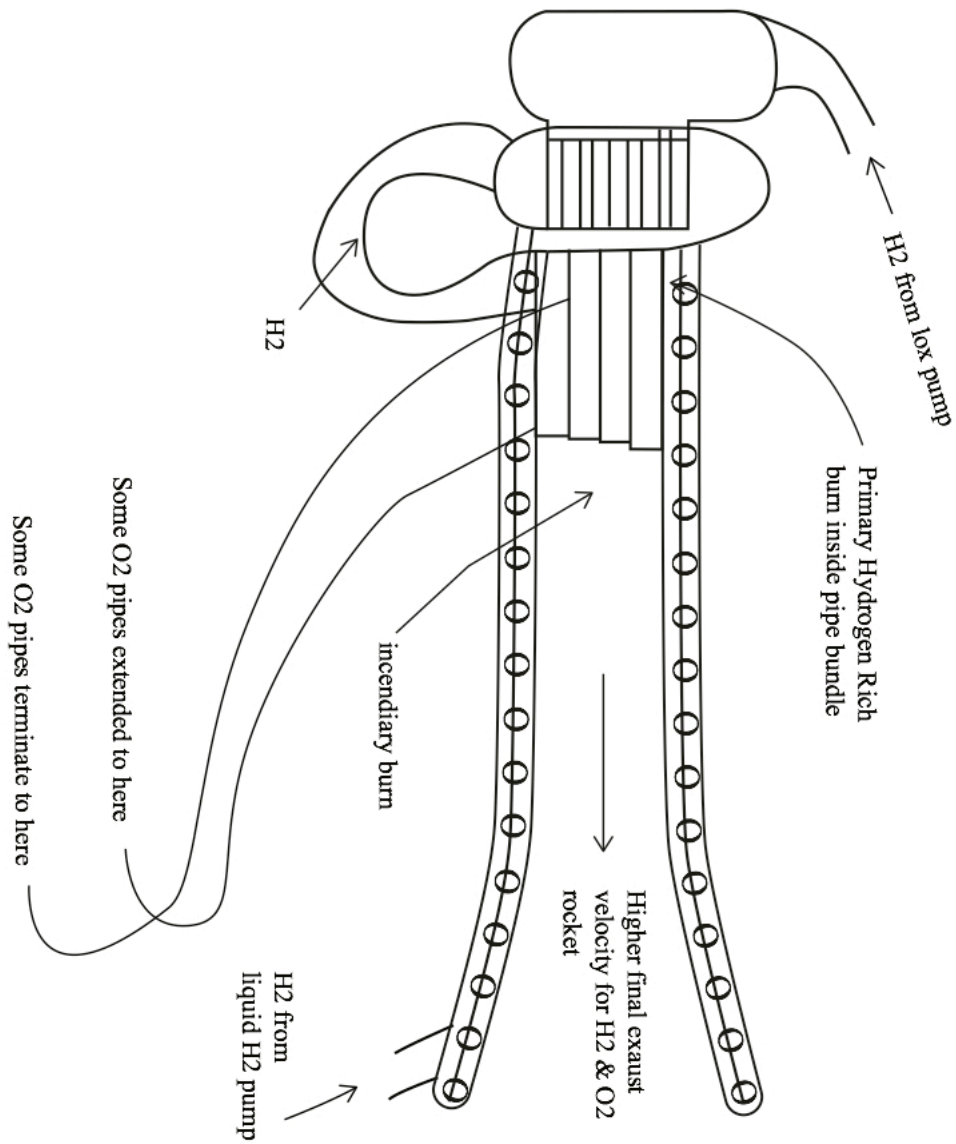
Dr. Bronco did some calculations and I built a crude device to illustrate the staged burn principle in 1970 Arkansas Polytechnic college.

Rocket Array - Hypersonic



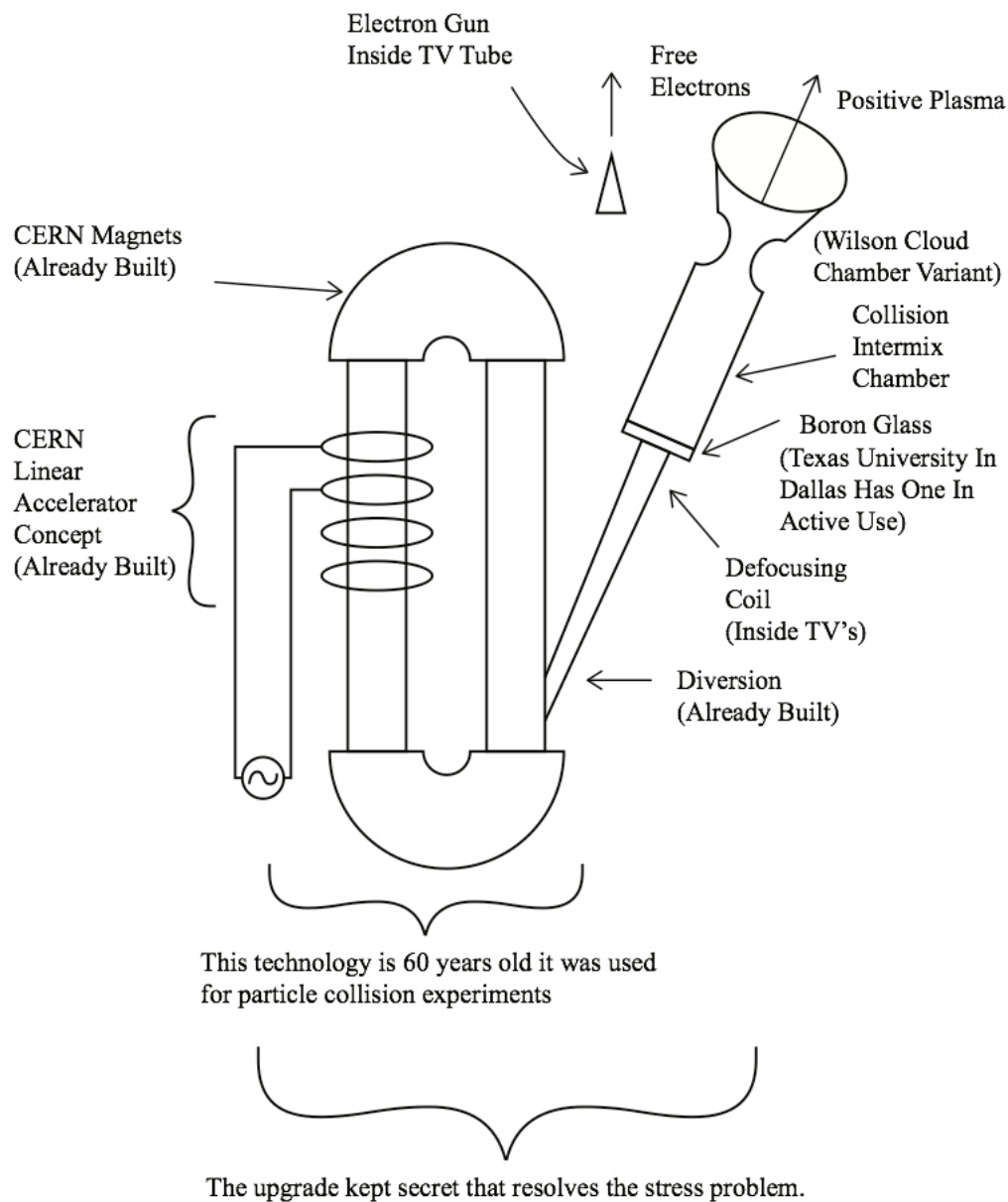
Forget trying to get hypersonic mach 4 internal burn. The intermix is instant. This thing junks the AF secret hypersonic ram jet they haven't got working right yet. The USAF hyperson burn failed because a rocket array was needed. Jet intermix substitute is inferior.

Cascade Burn Motor Design 30 Years Old



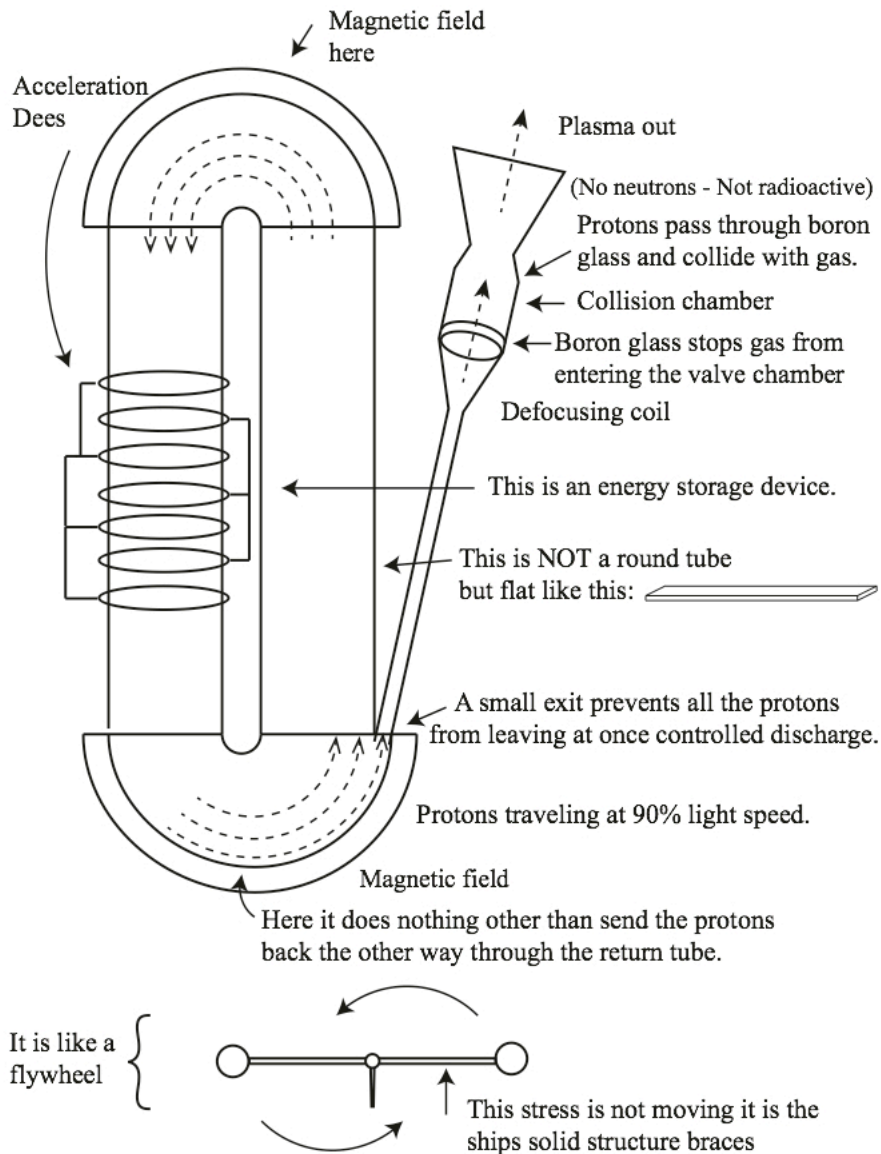
Cascade burn results in a higher final velocity.

Particle Accelerator Rocket



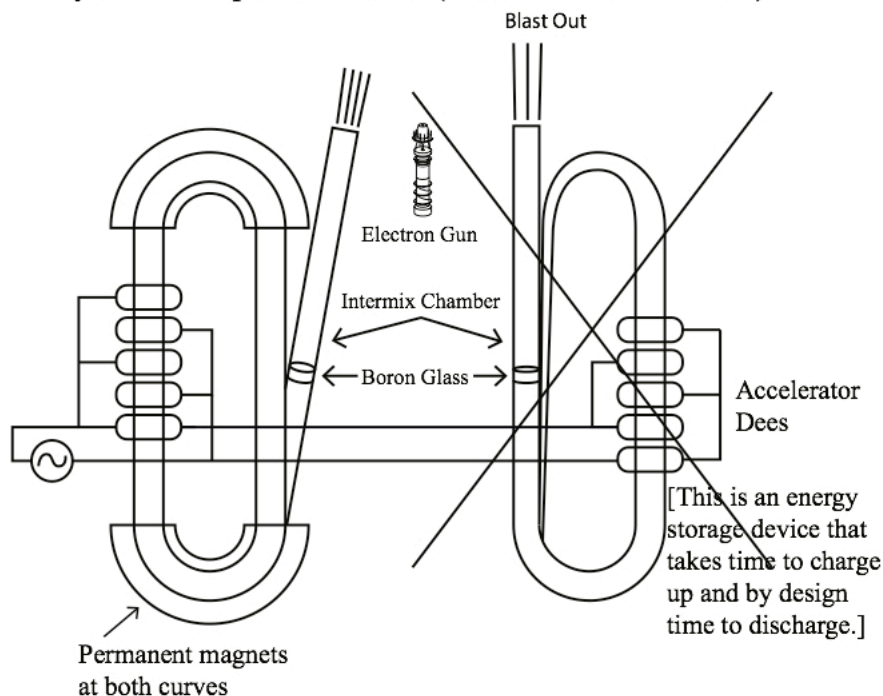
So what did I invent? Nothing. Any physics senior if asked:

“Modify a particle accelerator to concentrate thrust as a rocket to generate thrust as a rocket motor” - even the dumbest can detail even better than shown here.



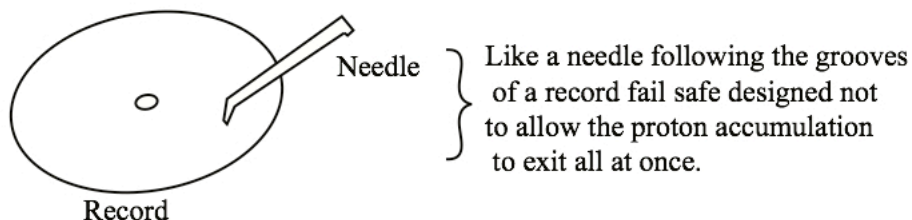
Boron glass is transparent to high speed protons that pass through it. Boron glass stops gas molecules from entering into the cyclotron. This means high speed proton collisions substitutes for chemical burn in the gas collision chamber where the plasma exits like a rocket nozzle. Think of the cyclotron as a big flywheel with the protons spinning very rapidly but released gradually through the boron glass. The electron gun is a simple hot rod that maintains ship neutrality by letting electrons escape to balance escaping protons. So what? No neutrons. It's not radioactive at all. In contrast the fission nuclear rocket is highly radioactive when operating.

Cyclotron Propulsion Device (Illustrative Not Detailed)

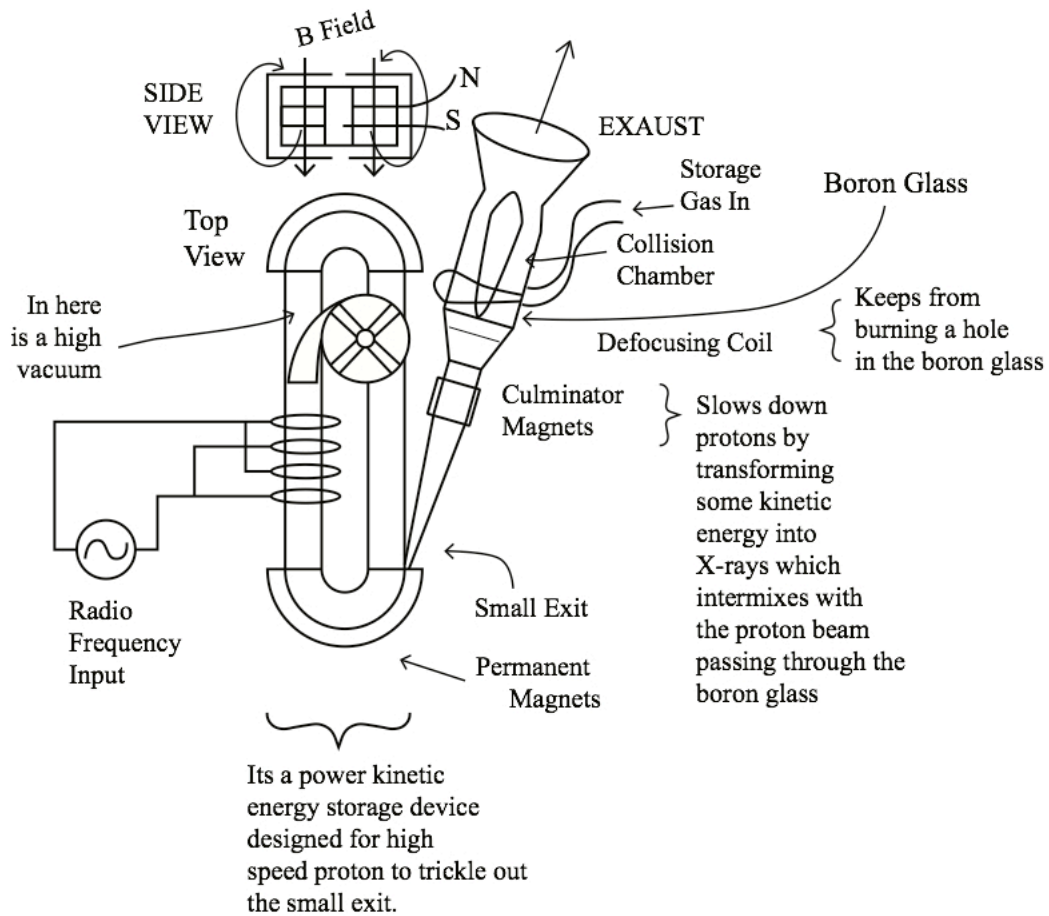


Correction: The two cyclotrons should be symmetrical like you are looking at this design and it's reflection in a mirror. Both require magnets. The thruster pipes are the rockets should be parallel. The cyclotrons can be angled to make the rocket pipes parallel in the drawing. If you want a side view it's a stack. Right now I am making a illustrative stack. This thing is capable of over 8 G acceleration or higher for a brief period. It won't work without an electron gun. Dr Bronko said in 1970 the spaceship must maintain electrically neutral for charge equilibrium and an electron gun does that.

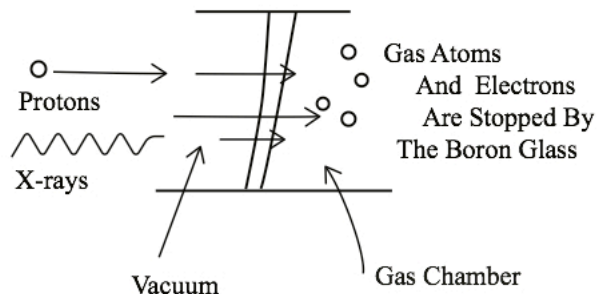
A grain of sand traveling at 90% light speed has the kinetic energy of an atomic bomb. Here protons are sent accelerating at that speed in a closed loop and are bled off gradually to collide with a propellant gas past the boron glass resulting two plasma exhaust jets. This takes an hour in which time the craft has lifted off from a planet big as earth and is well into escape velocity.



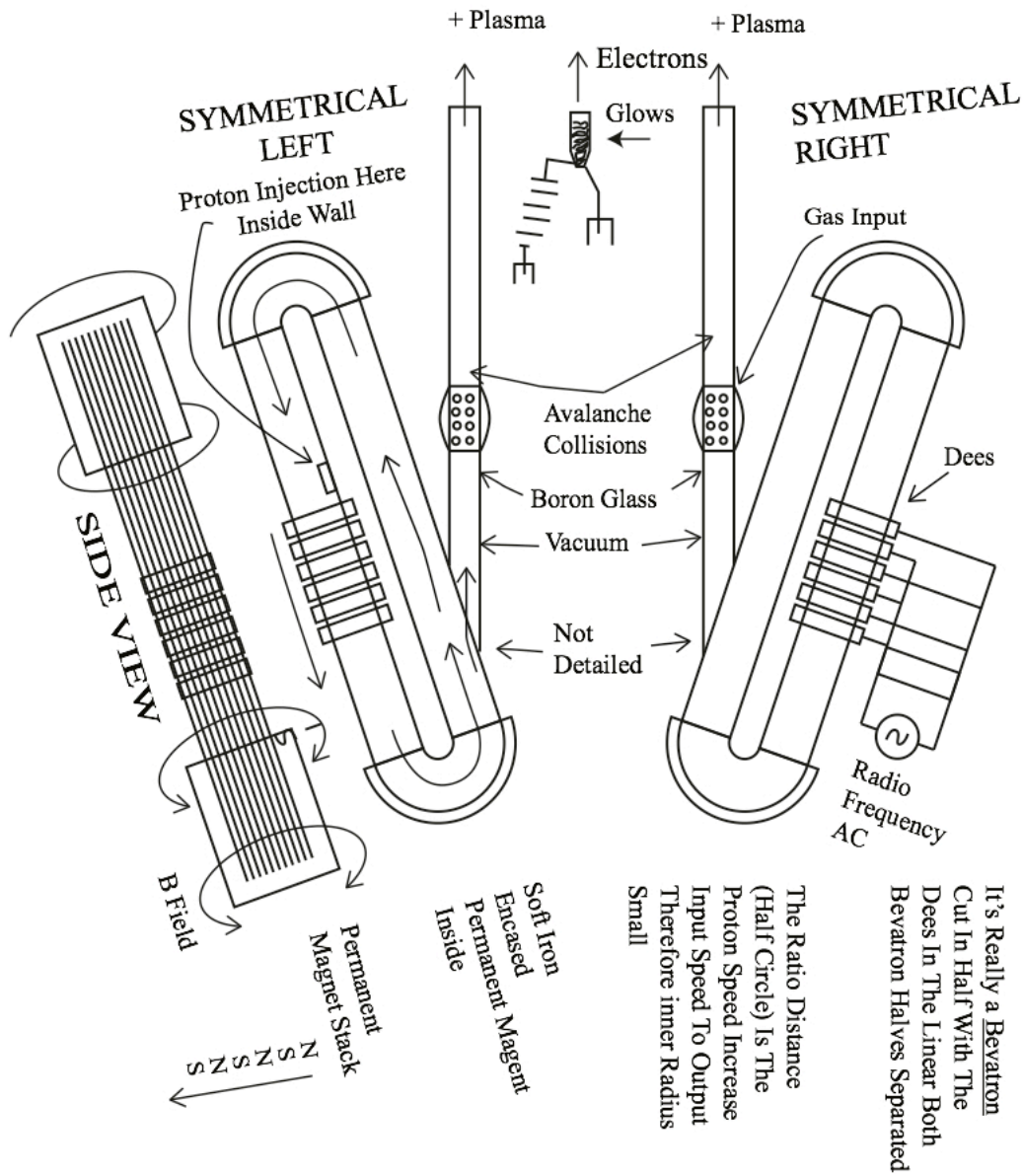
The UFO Motor Storage Device Explanation (Not Detailed)



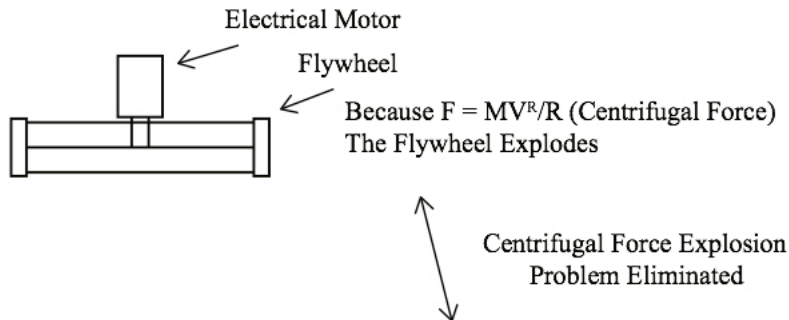
How the boron glass works: The fewer protons an element has the bigger by volume its size. The boron glass atoms are large but effective in stopping gasses from passing through it. High speed protons penetrate through it while at the same time stopping electrons.



Why Two? So The Spaceship
Can Turn Left/Right With 4 Full
Maneuver



Toroid Bevatron

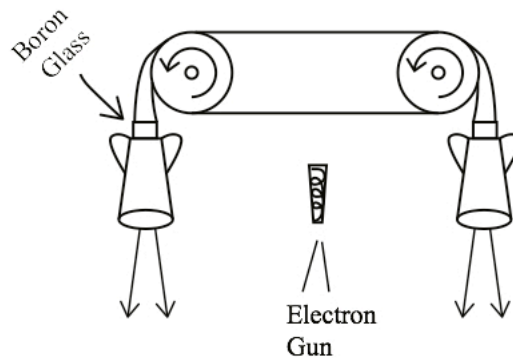


In a bevatron toroid the protons spin in a void around in the donut magnetic field. The mass is very small and V is about 90% light speed. The centrifugal force problem eliminated it then is necessary the protons get bled off not sent out at once to collide with propellant mass (can be steam) because the interstellar spaceship has an abundance of water from low gravity worlds, comets etc.

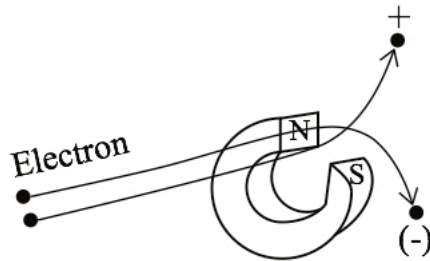
Fools That Attempt This Should Be FIRED

{ [It's stupid to accelerate protons with this device to atom smashing velocities.]
[It's stupid to overcharge this device]

Humans are stupid and like asses try to do the wrong things because the military wants weapons. This was not intended to be a weapon but a rocket motor. That's why I was given permission to reveal only a primitive donut that one can get some useful work from.



The bevatron existed in the 1950's. It's old hat



What
a magnetic
field does

The charge of protons
and electrons are
equal in magnitude
 $+1.60 \times 10^{-19}$ coulomb \rightarrow proton
 -1.60×10^{-19} coulomb \rightarrow electron
opposite in sign (\mp)
electron mass is
 $\frac{1}{1836}$ of proton mass

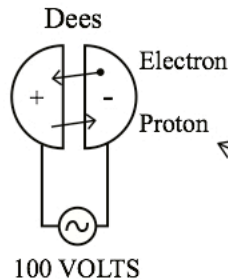
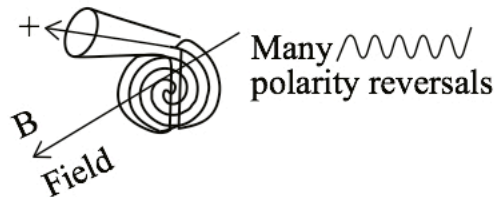
Proton rest mass =
 1.673×10^{-27} kilogram

Electron rest mass =
 9.109×10^{-31} kilogram

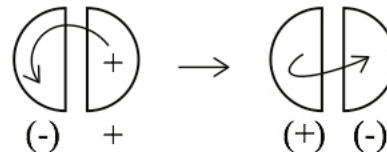
For an electron
in a vacuum
velocity across 100 volts

$$V = \sqrt{\frac{2eV}{m}} = \sqrt{\frac{2(1.6 \times 10^{-19} \text{ coulomb})(100 \text{ VOLTS})}{9.1 \times 10^{-31} \text{ kg (electron mass)}}} = \frac{5 \text{ million}}{9 \text{ hundred thousand meters/sec}}$$

For proton speed substitute
proton mass here



Dees in a vacuum
This is how the
dees work



Because its high frequency AC
the polarity reverses the magnetic
field acts like a diode giving a
preferred direction

What's new about the toroid bevatron is weight reduction for use as a propulsive device -
not as an atom smasher. IT SHOULD NOT BE USED TO SMASH ATOMS

Therefore keep proton exit speeds below smashing speeds.

If a toroid bevatron can store 1 gram of protons at 1 million volt potential - the static thrust in slow release is 1,910 kilograms for 1 hour duration.

Much higher if it is used to collide with a gas mass in the collision chamber.

Velocity In Meters/Sec =

$$\sqrt{\frac{2(1.6E^{-19} \text{ coulomb})(100 \text{ VOLTS})}{9.1 \times 10^{-31} \text{ kilogram}}} = 5.9 \times 10 \text{ Meters/Sec}$$

One Electron Weighs 9.1×10^{-31} Kilograms

One Proton Weighs 1.673×10^{-27} Kilograms

$$\begin{aligned} \text{Proton Velocity In Meters/Sec} &= \sqrt{\frac{2(1.6E^{-19} \text{ coulomb})(100 \text{ VOLTS})}{1.673 \times 10^{-27} \text{ Kilograms}}} \\ &= \sqrt{191.273 \times 10^{27-19}} = 13.83 \times 10^4 \text{ Meters/Sec} \end{aligned}$$

Proton At 1,000,000 Volts
Velocity In Meters/Sec =

$$\begin{aligned} &\sqrt{1.91273 \times 10^{27-19} (1 \times 10^6 \text{ VOLTS})} \\ &\sqrt{1.91273 \times 10^{E14}} = .38 \times 10^7 = 1.38 \times 10^7 \text{ Meters/Sec} \end{aligned}$$

1 gram = .001 Kilograms
= 1×10^{-3} Kilograms

Kinetic Energy For 1 Gram = $1/2 (1 \times 10^{-3} \text{ kg})(1.38 \times 10^7)^2$

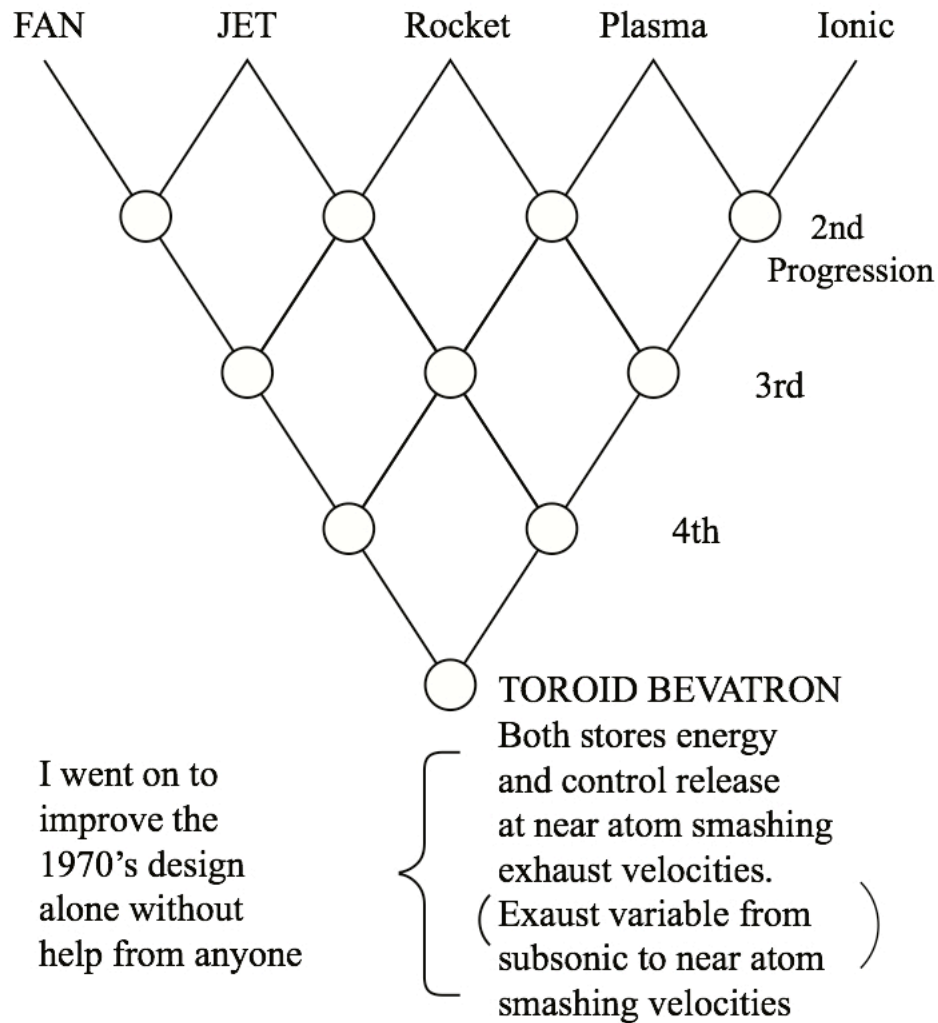
Of Protons Stored in The = $(.5)(1.38 \times 10^{14}) = .69 \times 10^{14}$ joules

Toroid Bevatron

Static Thrust = $\frac{.69 \times 10^{14} \text{ Kilograms}}{3600} = 1.91 \times 10^{(7-4)}$

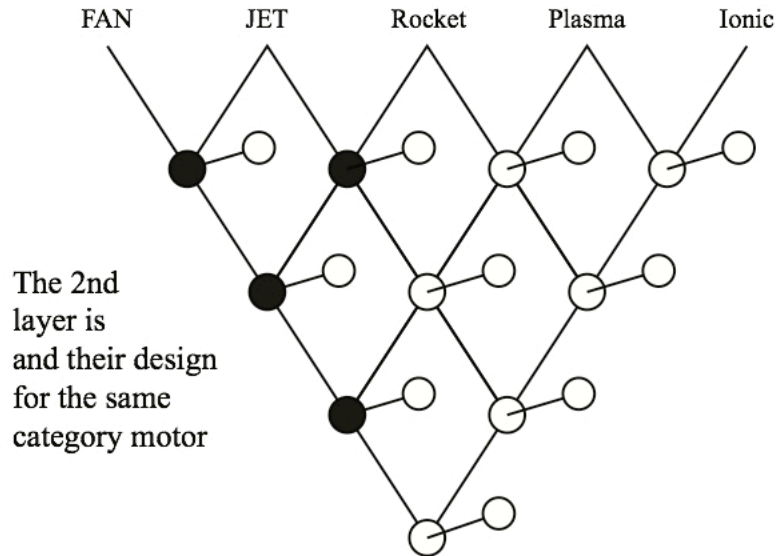
(1,910 Kilograms)
Thrust Sustained
For 1 Hour
↑ Duration

Propulsion Motor Matrix



Each circle is a propulsion motor design i left in the hands of the ex mayor of Grand Prairie, Texas in the 1970's.

The Propulsion Matrix Is Three Dimensional



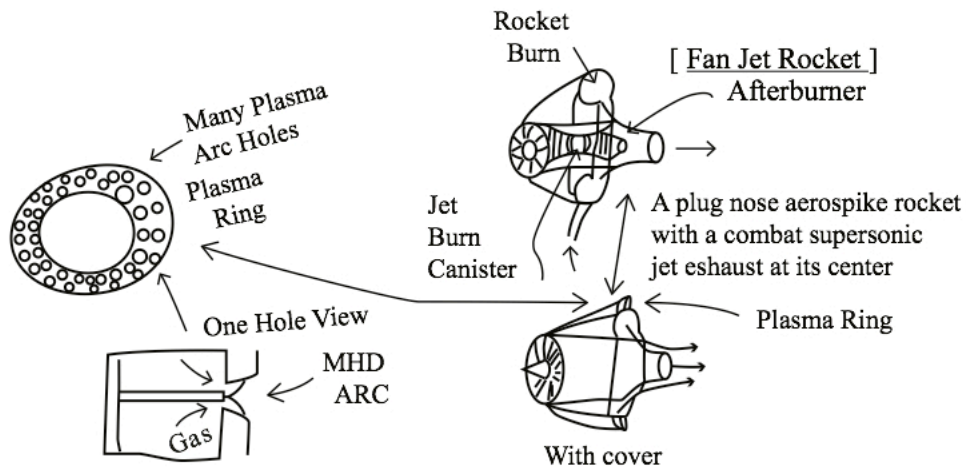
Fan-Jet

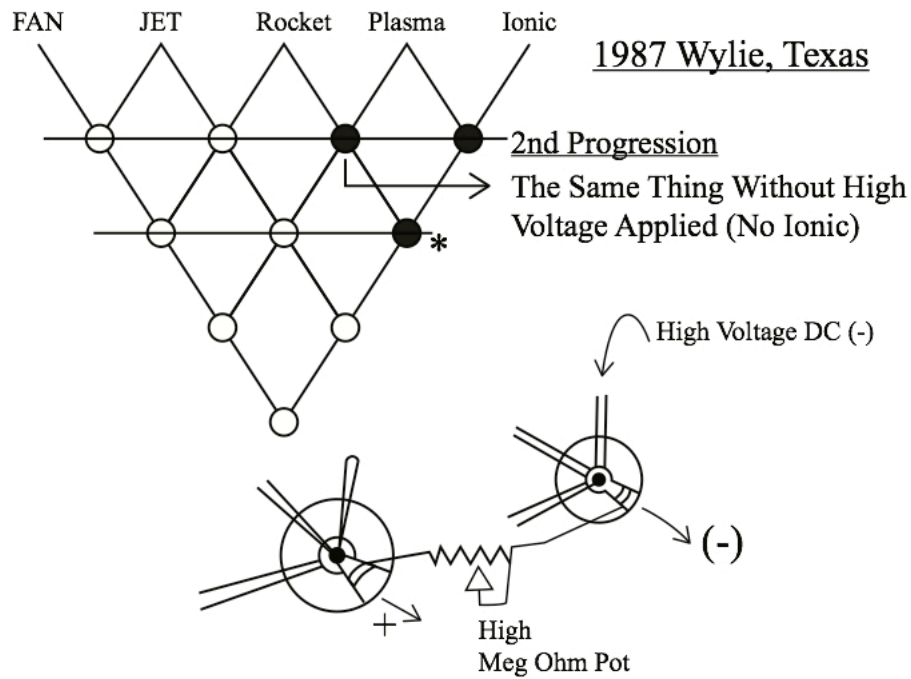
Is a turbofan with gear reduction to a gas turbine as seen on a typical 737, 717 etc.

WYLIE TEXAS 1987



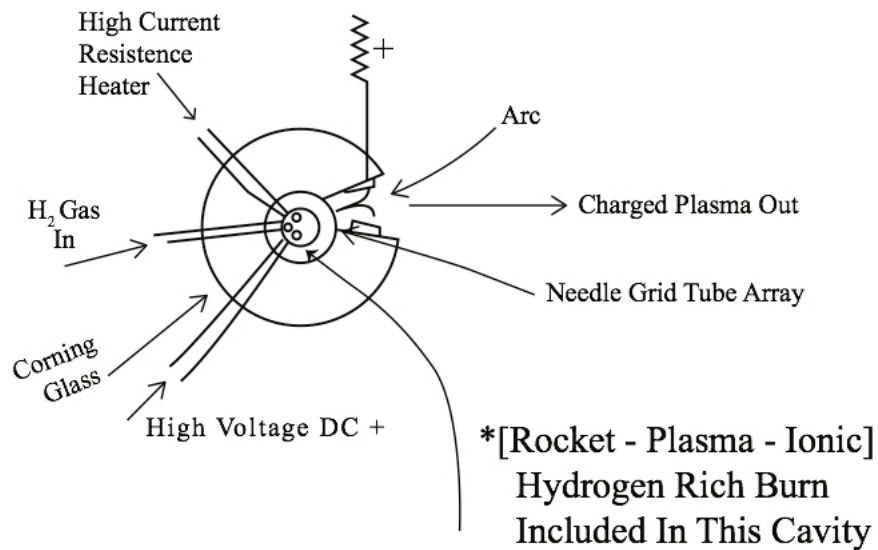
Without gear reduction and with afterburn - Supersonic combat jet.



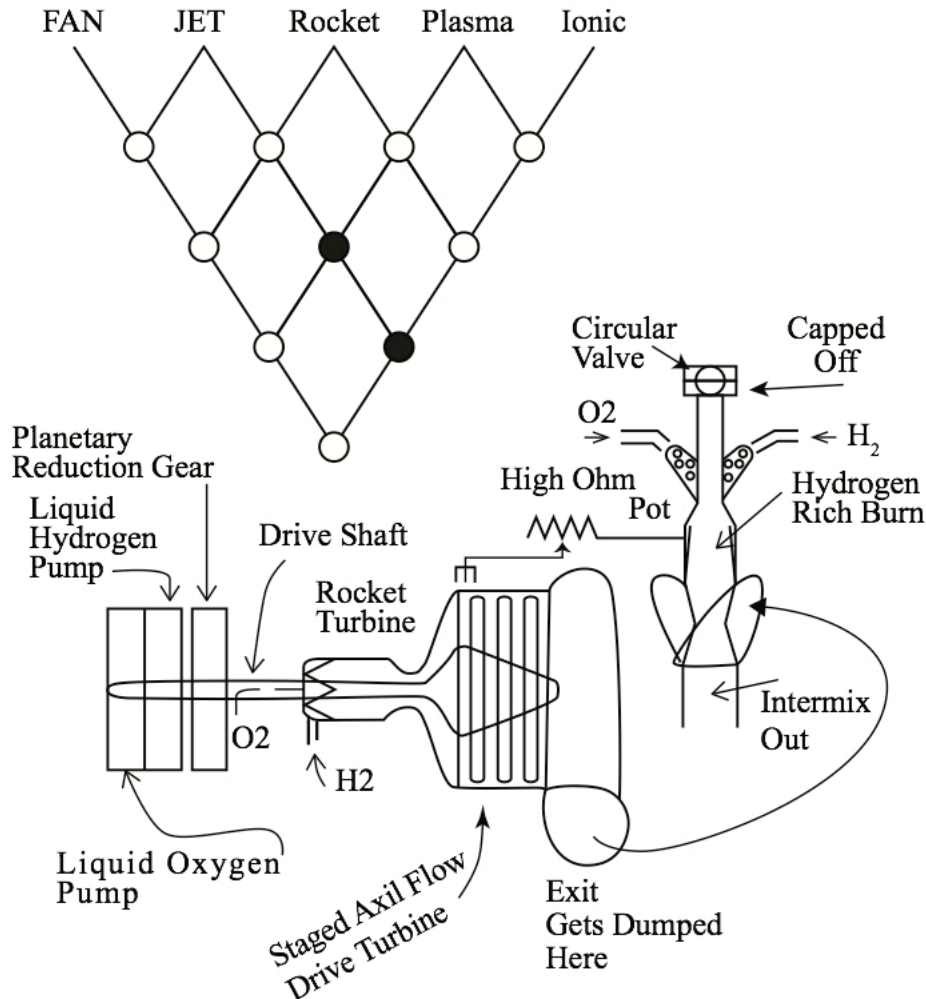


[The Plasma Ionic Motor]

Hot Ball Glows By Resistance Heat (Isolation Transformer)



The [Jet - Rocket - Plasma] - Ionic Motor
And
The Jet - Rocket - Plasma - Ionic Motor

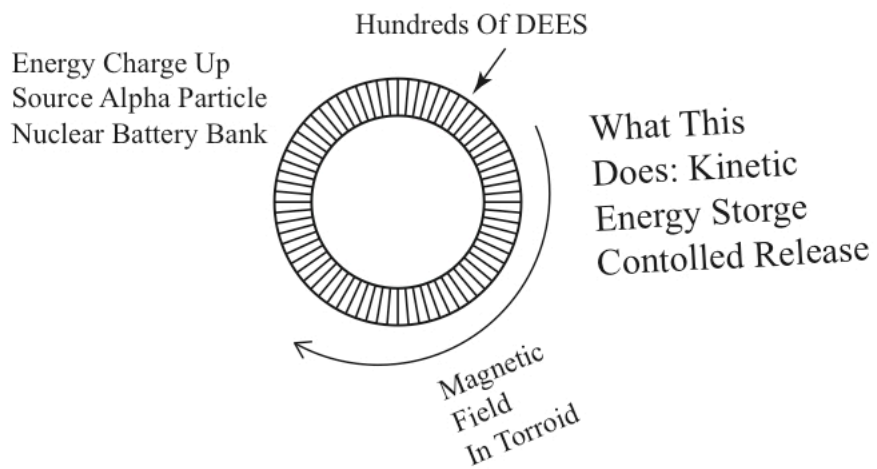
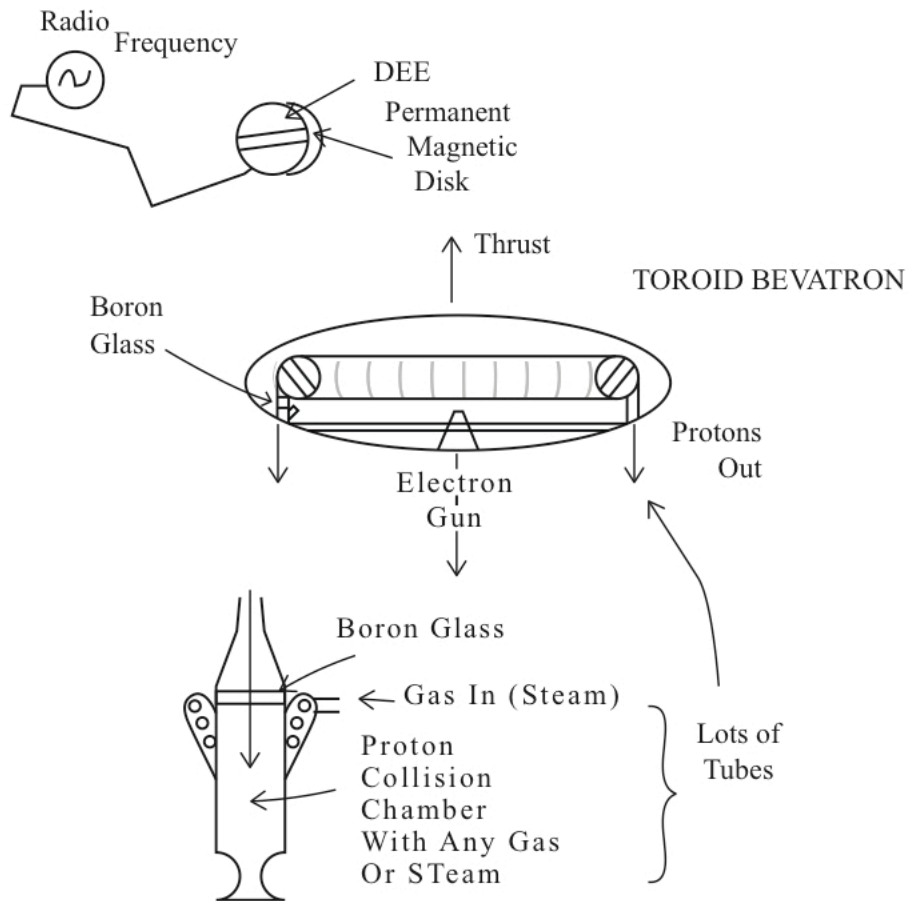


[1987 Wylie, Texas] storm shelter designs destroyed and memory recovered in 2013 (Dec)

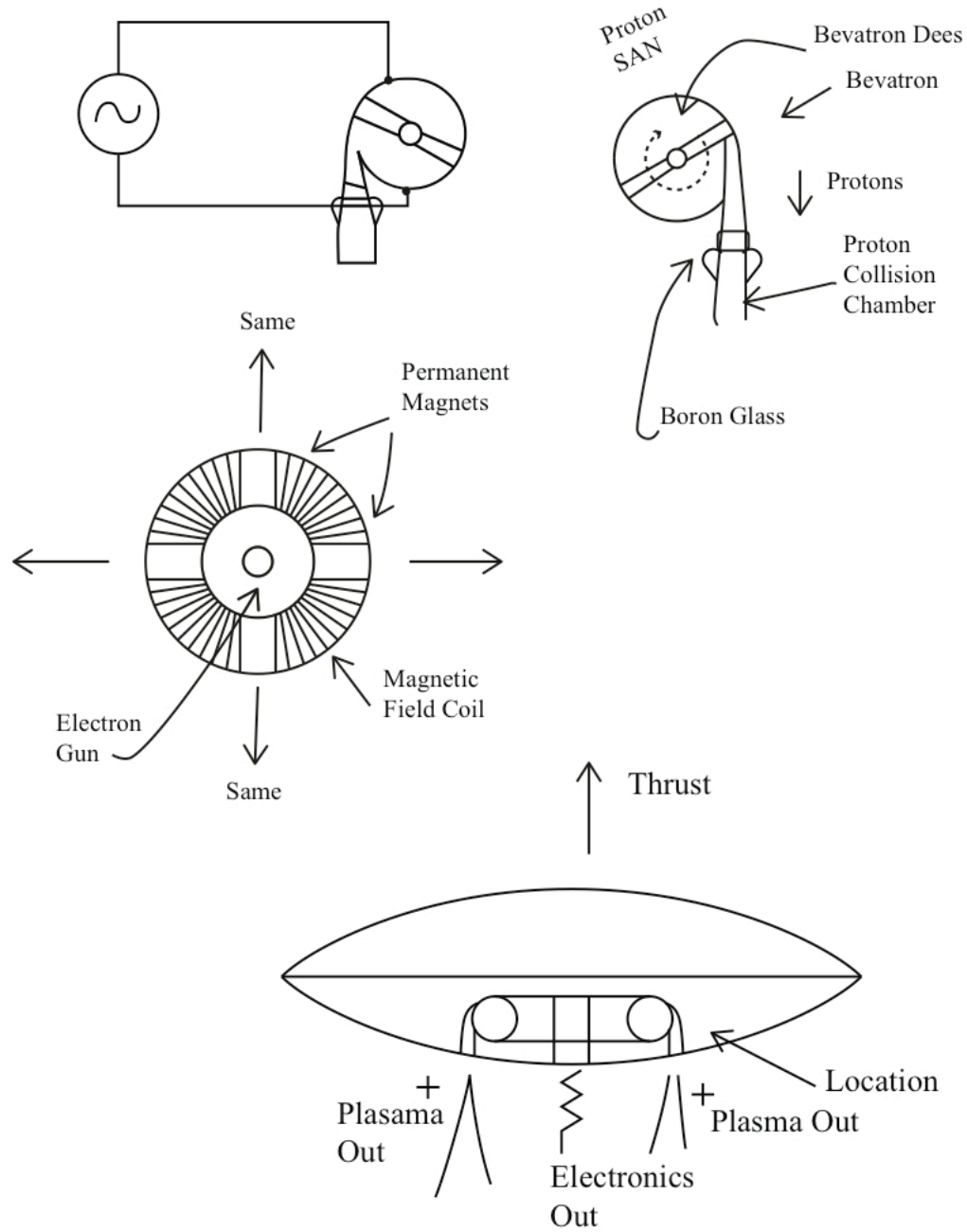
It's actually the intermix chamber that attaches to the boron glass proton bevatron. Capped off to illustrate pure jet - rocket - plasma function circular valve on to permit proton avalanche collision (plasma) results in jet - rocket - plasma function. Pot adjust results in plasma - ionic function.

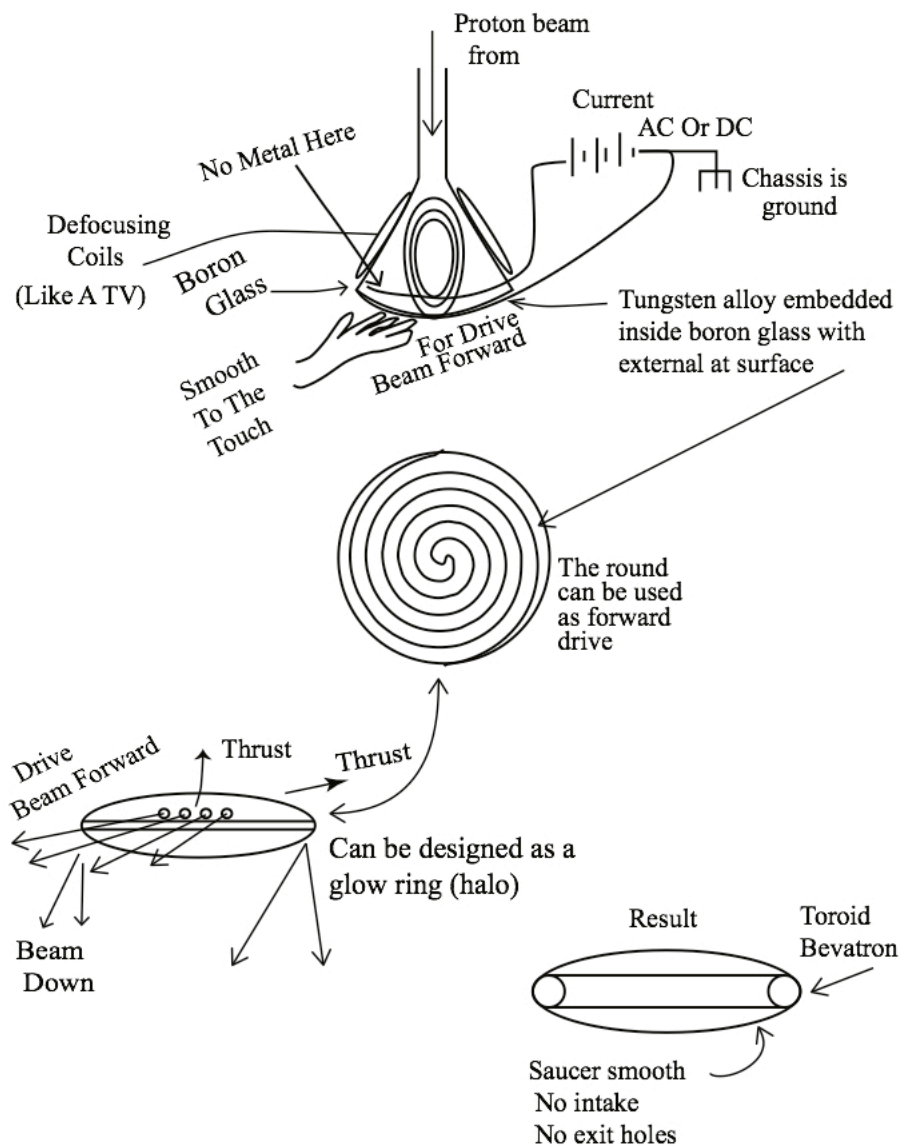
This completes all the propulsion motor sample illustrations. The parallel (third dimension) is for quality upgrades or design variety as an example the staged pipe cluster burn design incorporated as a design variant.

UFO MOTOR



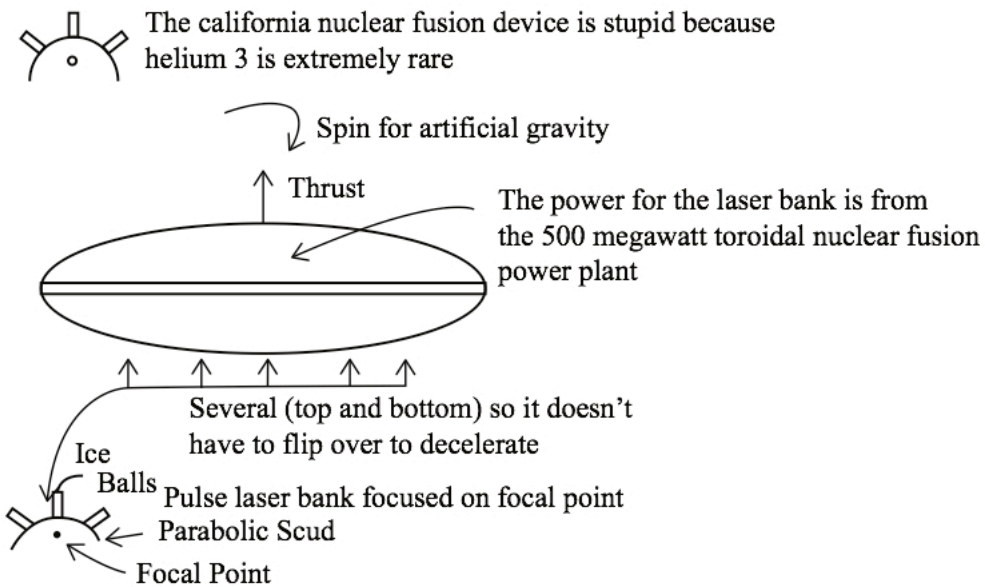
Primitive Toroidal (Donut) Proton Particle Accelerator Propulsion Motor





What's it for? The spiral is the negative electron gun that neutralizes protons that exit (transforms proton beam into plasma external to the saucer)

The Interstellar Spaceship Fleet Motor



For the reason the interstellar spaceship has a large deuterium reserve for its toroid nuclear fusion power generator, ordinary ice balls are blasted at the focal points for thrust.

(Ice that was processed to have its deuterium content removed) ordinary ice balls are shot at the focal point like a machine gun. Sensors detect the ice ball and fire the laser banks the ice ball instantly explodes into a plasma ball.

The thrust is a function of the temperature rise.

$$\text{Velocity Of Blast Gas} = V \quad V = \sqrt{\frac{3KT}{m}} \quad \text{In Meters/Sec}$$

Boltzmann's Constant 1.38×10^{-23} joules/degree kelvin = T

m = Molecular weight of one molecule of H₂O

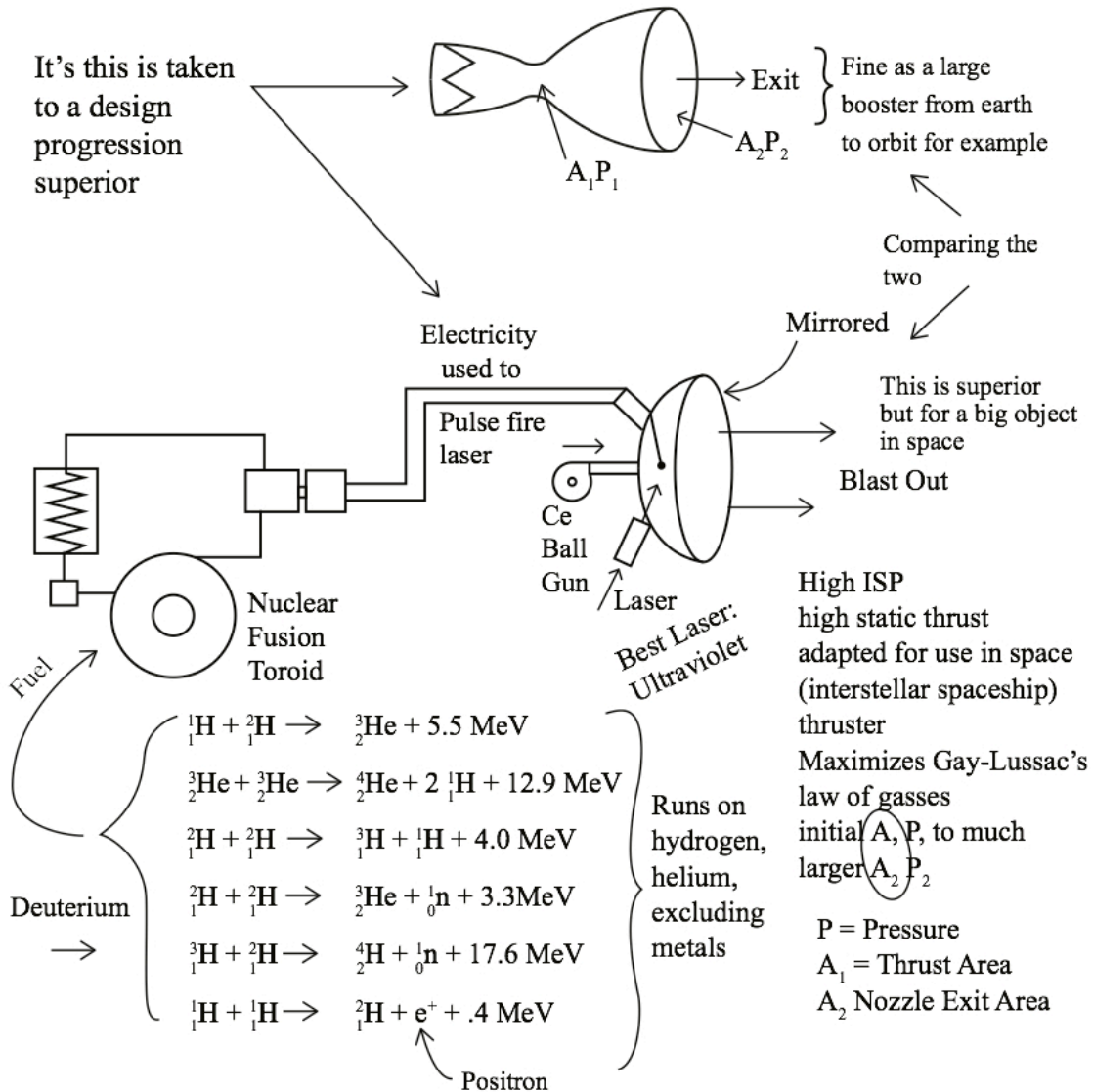
[No attempt to cause ice balls to reach nuclear fusion temperatures]

It's not a nuclear fusion blast.

Because this kind of motor has a ISP far superior to chemical burn, interstellar travel speeds is possible

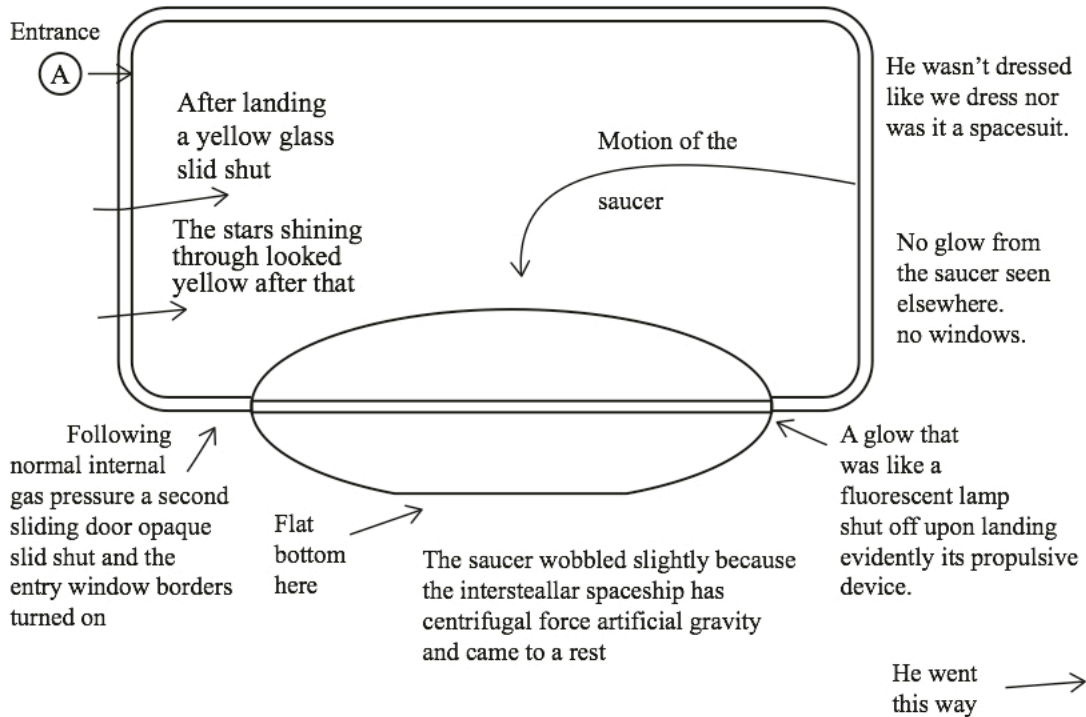
I thought you might include this as I forgot to describe the interstellar spaceship fleet motor. The shuttle craft motors are different depending on application. The fleet motor generates much less than one G so as not to disrupt internal activities where centrifugal force is used for artificial gravity.

This Compares The Chemical Burn Rocket
To Its Ice Ball Upgrade.

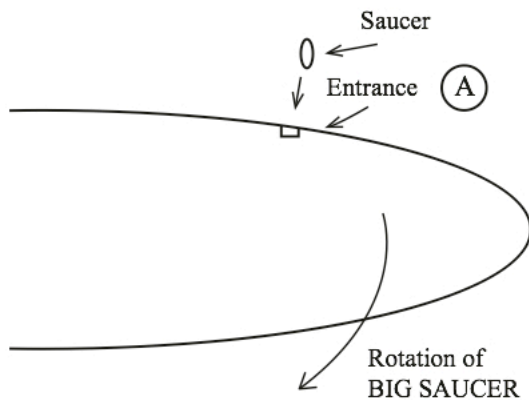


* Lithium fusion excluded for security reasons
(It's a metal that messes up the interior and damages the toroid)

IN A DREAM STATE I SAW THE FOLLOWING AND THEN WOKE UP.
IN ANOTHER DREAM I GOT TO RIDE THE SAUCER LIKE THAT.

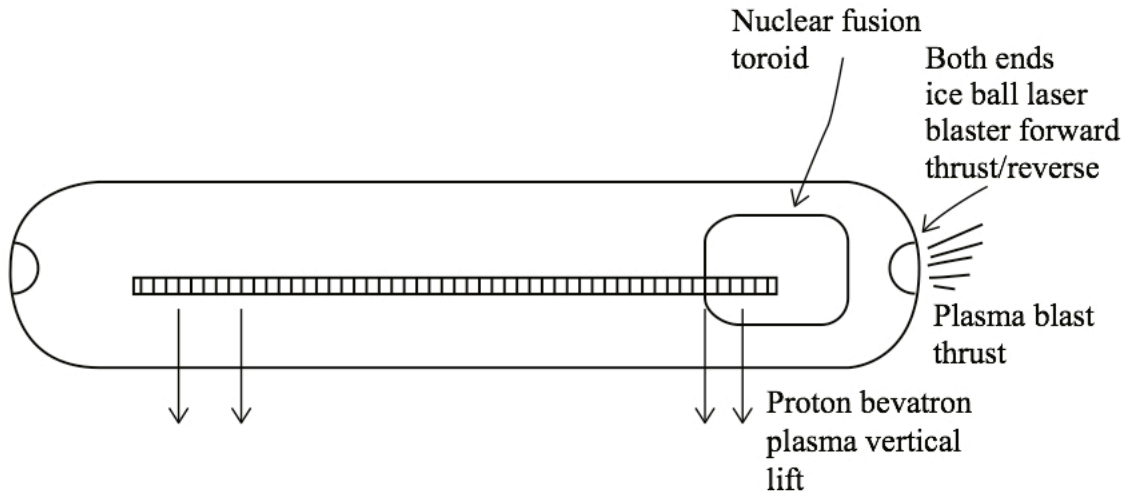


No landing pods. The alien exited the back side - I didn't see what kind of exit the saucer had. The alien walked to the left; pulled down a lever twice and let go. A sliding door opened and he went in a long corridor with the door closing behind him. The big saucer was so enormous there was no noticeable curve to the floor of the long corridor he went into.



What I saw fits in perfectly with a saucer entering an interstellar spaceship that slowly rotates

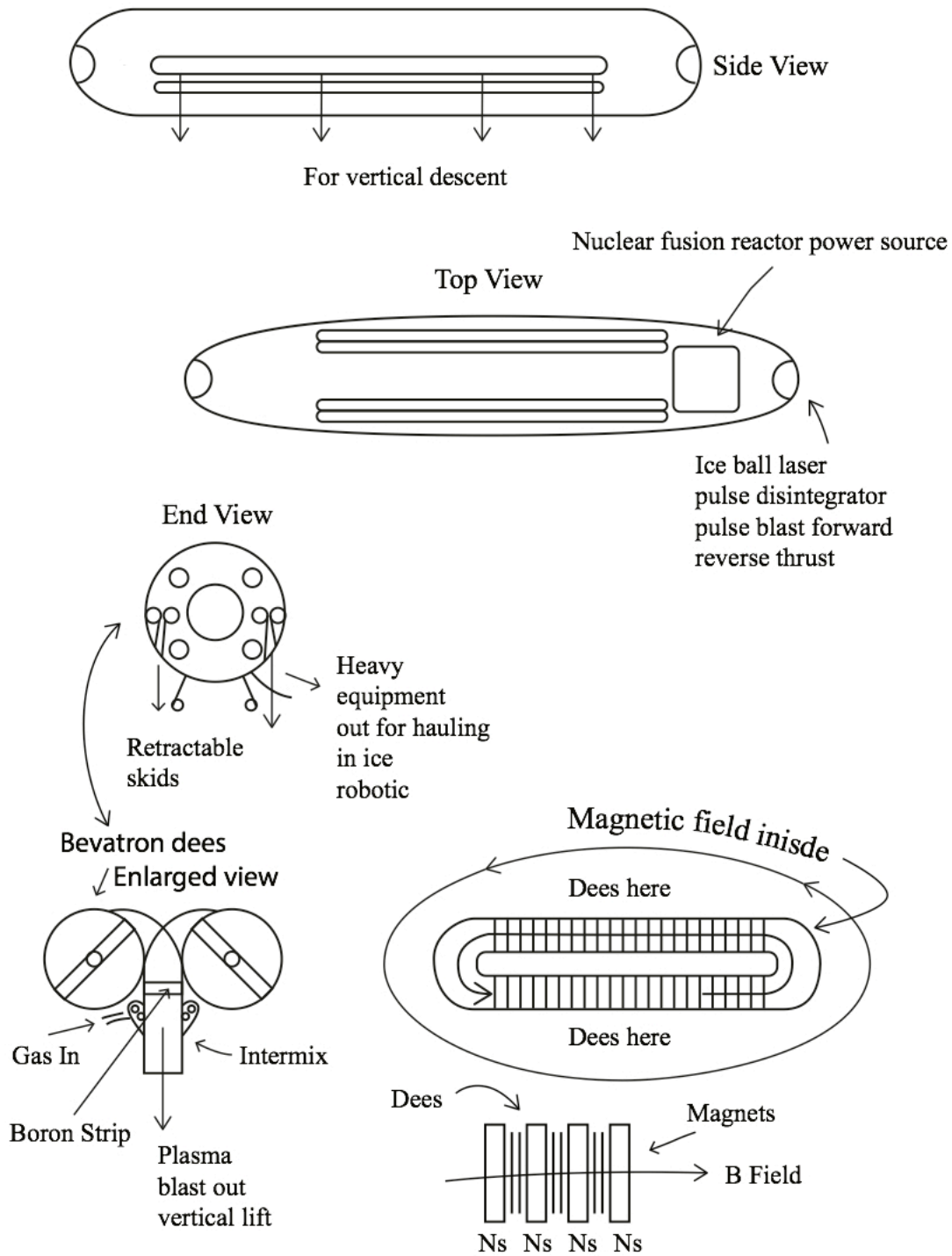
In the cigar ufo the toroid bevatron is long. The curved part is too close the magnetic field loop and contains no dees. The straight part contains dees both sides for vertical lift. The nuclear fusion toroid vastly reduced in size supplies height and electrical power. For long missions the cigar spins for internal artificial gravity.



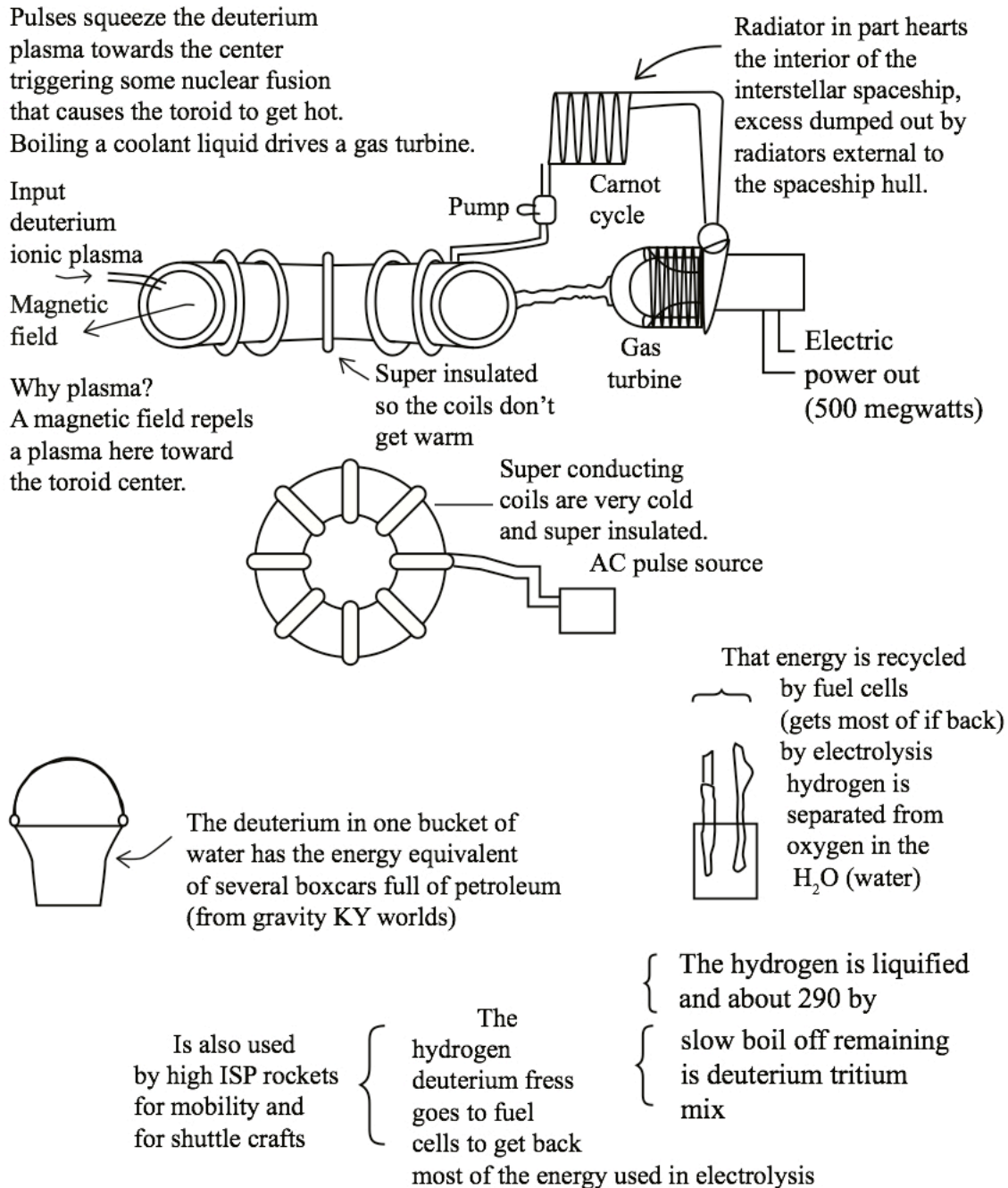
What is it for? It is sent by the interstellar fleet to low gravity celestial bodies to take in ice so the whole fleet doesn't need to come to a stop for re-fuel. Then it catches up and docks with the fleet. For this reason it requires its own nuclear fusion toroid.

I did not reveal how the fusion toroid was modified so it doesn't take up the volume of a four story cube but showed the profile so it explains how the fleet can interstellar travel without delay, slow-downs, or stops.

So you wont confuse how the dees are in the cigar ufo for lift; I chose to detail further



The Nuclear Fusion Toroid Reactor

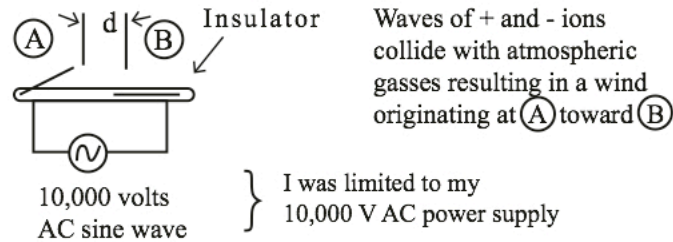


The amount of deuterium energy content in an ordinary bucket of earth water exceeds the energy content of 20 railroad petroleum fully loaded boxcars made for hauling petroleum.

Primitive UFO Motor

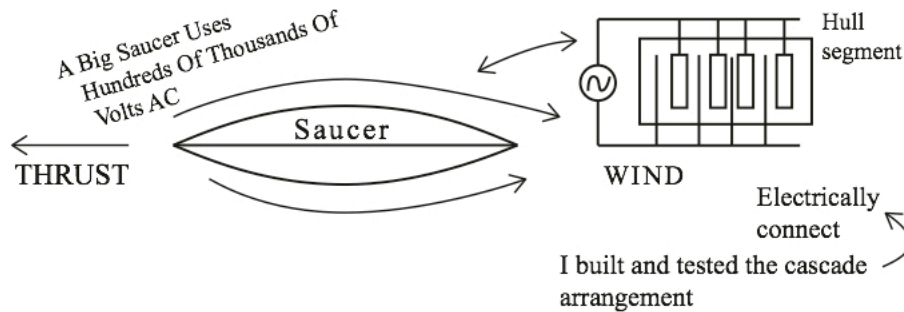
2 years ago

I built and tested a primitive UFO motor



(B) is totally insulated causing the wind to deflect

(A) is needle points whose tips protrude out about 1 millimeter. The separation distance needle point to leading insulated B plate is 1/2 cm.

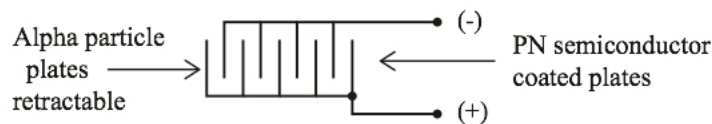


In the place of needle points are plasma motors so then the ship generates a sustained thrust in both an atmospheric environment and in a vacuum.

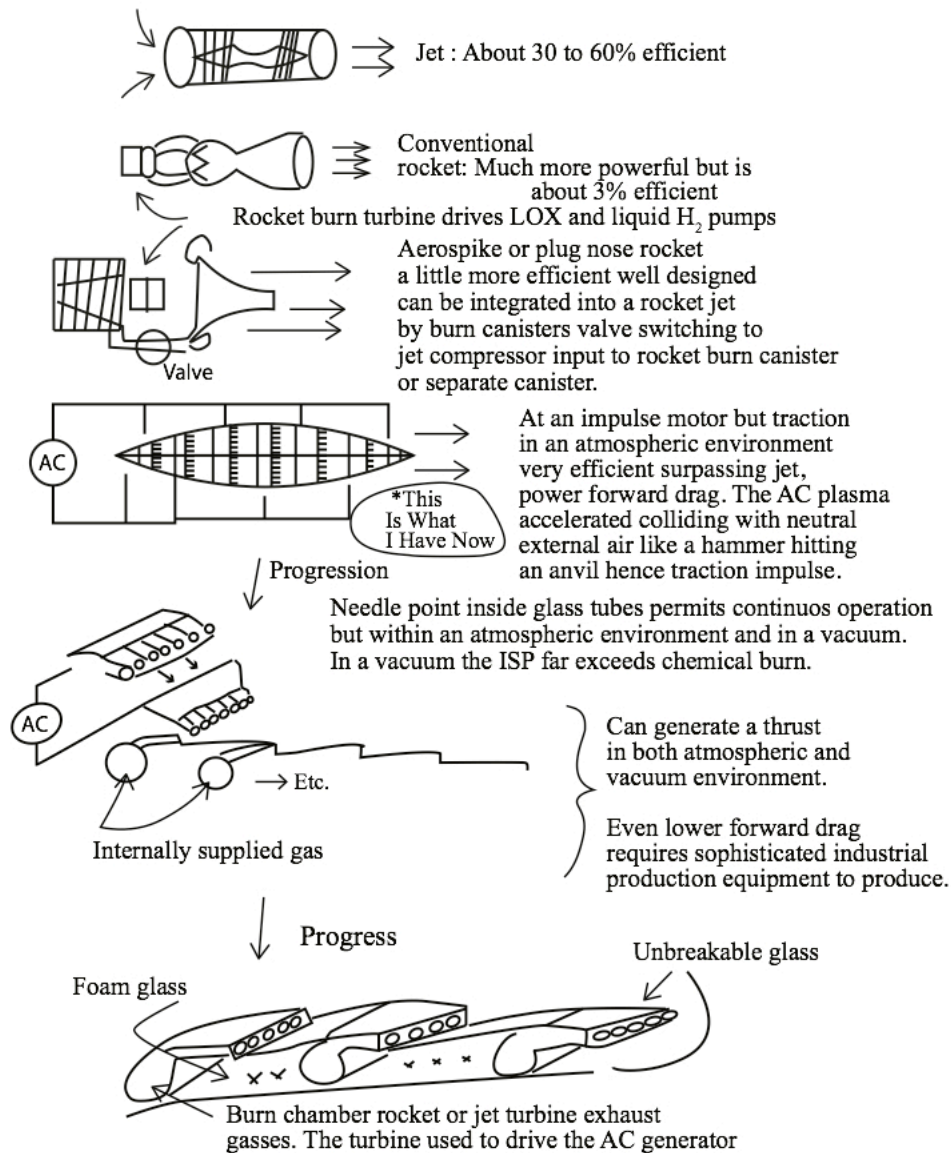
The nuclear battery is used to charge up battery banks for power surge. The plasma motors can also burn H₂ with O₂ chemically in their burn canisters.

In the NASA nuclear battery the plates are alternately coated with alpha particle element (radioelement isotope).

In the saucer nuclear battery the plates are alternately pn (diode) sandwich permitting the battery to sustain a much higher emu back voltage pressure hence more powerful for its size.



The UFO motor is not far fetched science fiction but a logical progression in propulsion design.

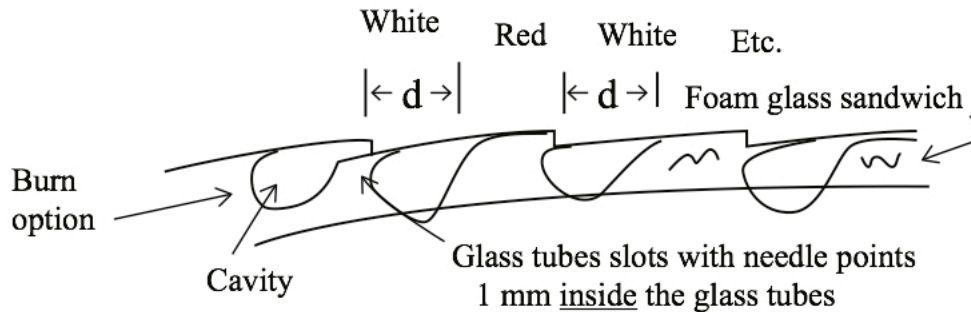


Result: A rocket-jet vehicle that converts chemical burn much more efficiently into thrust than today's 3% chemical burn rocket motor designs. Both in an atmospheric and vacuum environment. Nuclear energy not needed for earth liftoff to escape velocity. It serves as a shuttle craft to and from an interplanetary spaceship. Extensive cruise capability in an atmospheric environment by switching to turbine supply.

Progression: Introduction of a portable nuclear power source as shuttlecraft to and from interstellar spaceship.

Volts/Meter = Electric Field

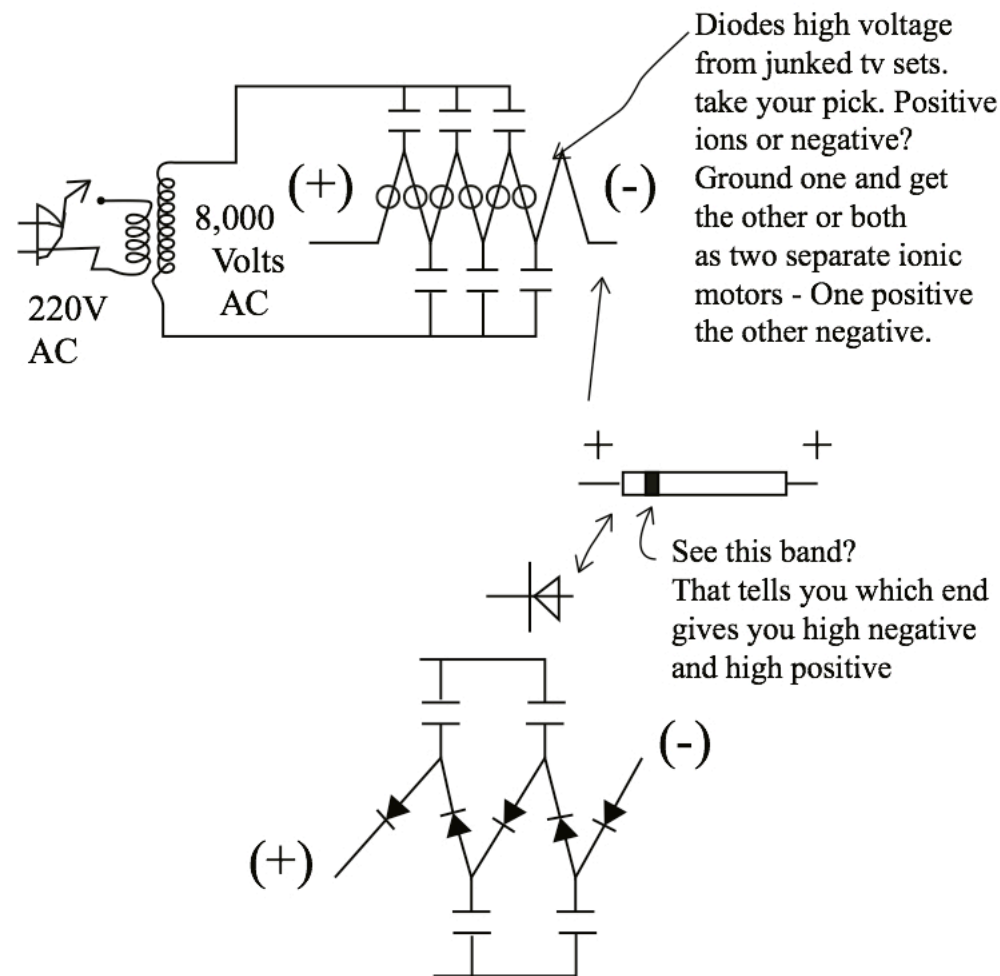
I'm using 10,000 volts/.01 meter to avoid arc burn of plastic insulation which carbonizes if lightning bolt penetrated. Increasing the frequency and voltage to below puncture strength for unbreakable glass the hull segment look like this:



For internal stored supplied gas - or pumped from outside the high frequency electric field strips or adds electrons to the gas in proximity of the needle point array causing the unlike charge to accelerate toward the proximate (red) insulated strip (in a vacuum with an ISP exceeding chemical burn).

In an atmospheric environment its traction (hammer bouncing off an anvil comparison) the air cant get out of the way fast enough. The saucer is able to operate both in an atmospheric and vacuum environment simple as that. Traction is not $M, V, = M_2 V_2$ (rocket impulse) but more like your foot pushing against the ground comparison because the ionic attraction is like a loaded spring external gasses near the hull surface cant get out of the way fast enough even if the atmospheric environment wind is supersonic past the hull surface. (saucer moving supersonic) - oh yes, drag reduces because of this plasmatic ionic flow near the hull. Don't let my weak plastic saucer fool you. With glass the voltage can be raised a lot higher and there is static thrust increase with the rise in voltage - quite high for glass.

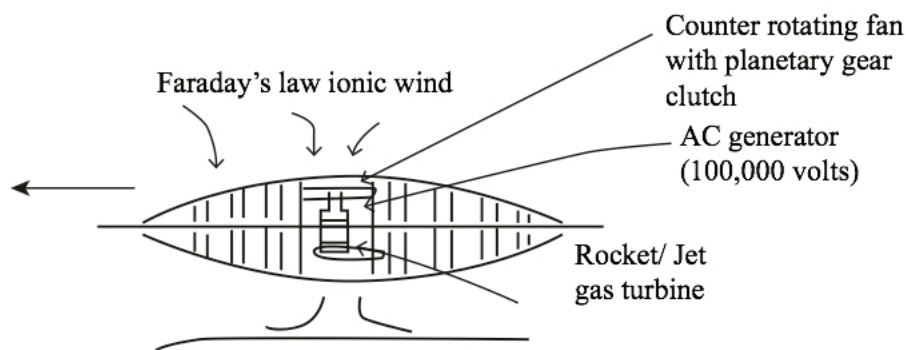
What I had in the tornado shelter was a DC ionic breeze coming from one single needle point I could feel with my hand over a yard away; and I could make the ions positive or negative by flipping over the high voltage diode. If Wylie, Texas had left me finsih my saucer I would have outpaced the USAF jets of that time. My AC ionic motor compacts the design. With DC requires separate motors at considerable distance seperation. AC eliminates that. Now then as for the beer bottle apparatus; the beer bottles are high voltage capacitors for the reason home built - electronic stores wont sell stuff reserved for business and research institues that have a lot of money and lawyers.



In the tornado shelter I was using a much higher frequency and all my stuff was from junk. My AC motor is weak because I'm using junk - what other have discarded for power.

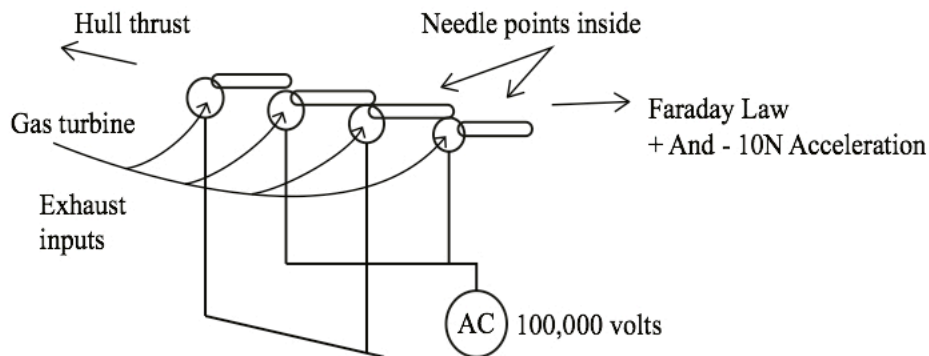
In theory:

The flying saucer utilizing only LOX and liquid H_2 can attain escape velocity from a verticle liftoff no need to improve nuclear energy the reason being rocket burn is 3% efficient but the same rocket burn as a gas turbine driver can be up to 80% efficient conversion to torque. If that torque drives a planetary gear counterrotating fan for ground liftoff then the AC ion motors in forward drive result in aerodynamic lift making possible clutch attachment from the verticle counterrotating fan diverting all the torque power to the AC high voltage generator that drives the ac ionic motors. The ionic motors is not Gay-Lussac but ion waves + followed by - based on Faraday's law where changing intense electrical field not thermal expansion is the accelerating force.

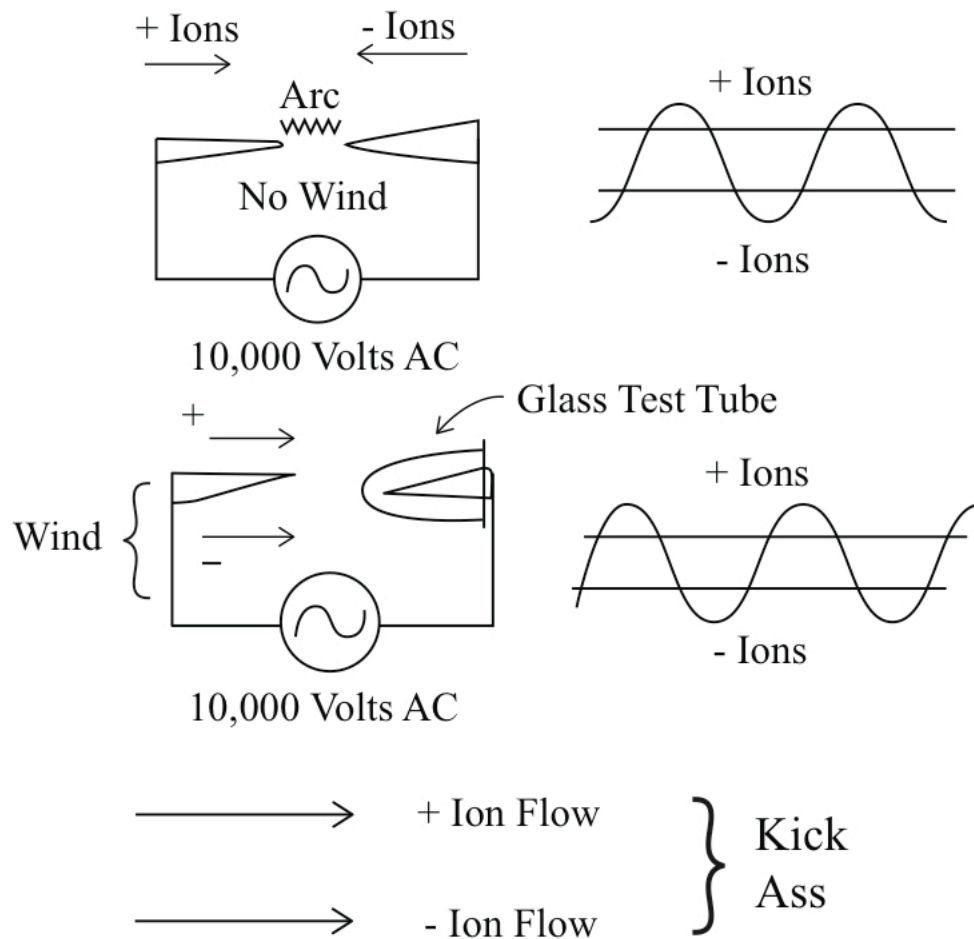


For lunar/martian landing; initial liftoff aerospike/ plug nose can substitute or supplement as seen in the fantasy flying saucer model "Forbidden Planet."

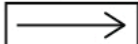
The faraday motor has two configurations; tubular and hull. I have tested both successfully



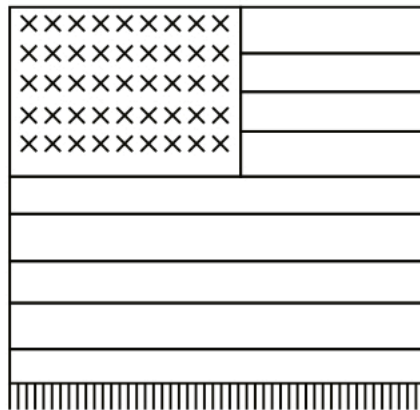
AC Thrust In Simple Terms



(Neutral air is hit hard like a hammer hitting an anvil)

The insulation where shown stops ions from forming there the thrust can only be one way  for both + and negative ions is that simple enough? AC thrust.

This I discovered by accident after I dreamed aliens in another galaxy have an electronic symbol that looks similar to the United States flag (by coincidence)



(Stars) Stars are made of plasma. Plasma responds to electrical and magnetic field in the dark my needle points arraged to array create mix plasma points in the presence of an intense electric field.

Blue: Gas ambient

Red: AC insulated strips

White: Spacing between strips

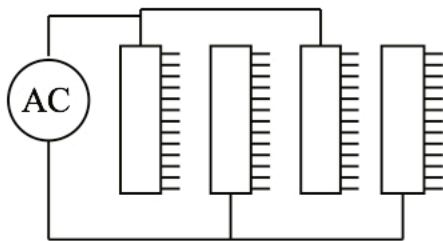
← The US Marine flag has this to put the needle points in array (by coincidence).



If noth strip and needle point is nude, then positive and negative flow in opposite directions resulting in an arc - no thrust



If the needle point is nude and the metal strip is insulated - ions can only move in one direction. A thrust is generated

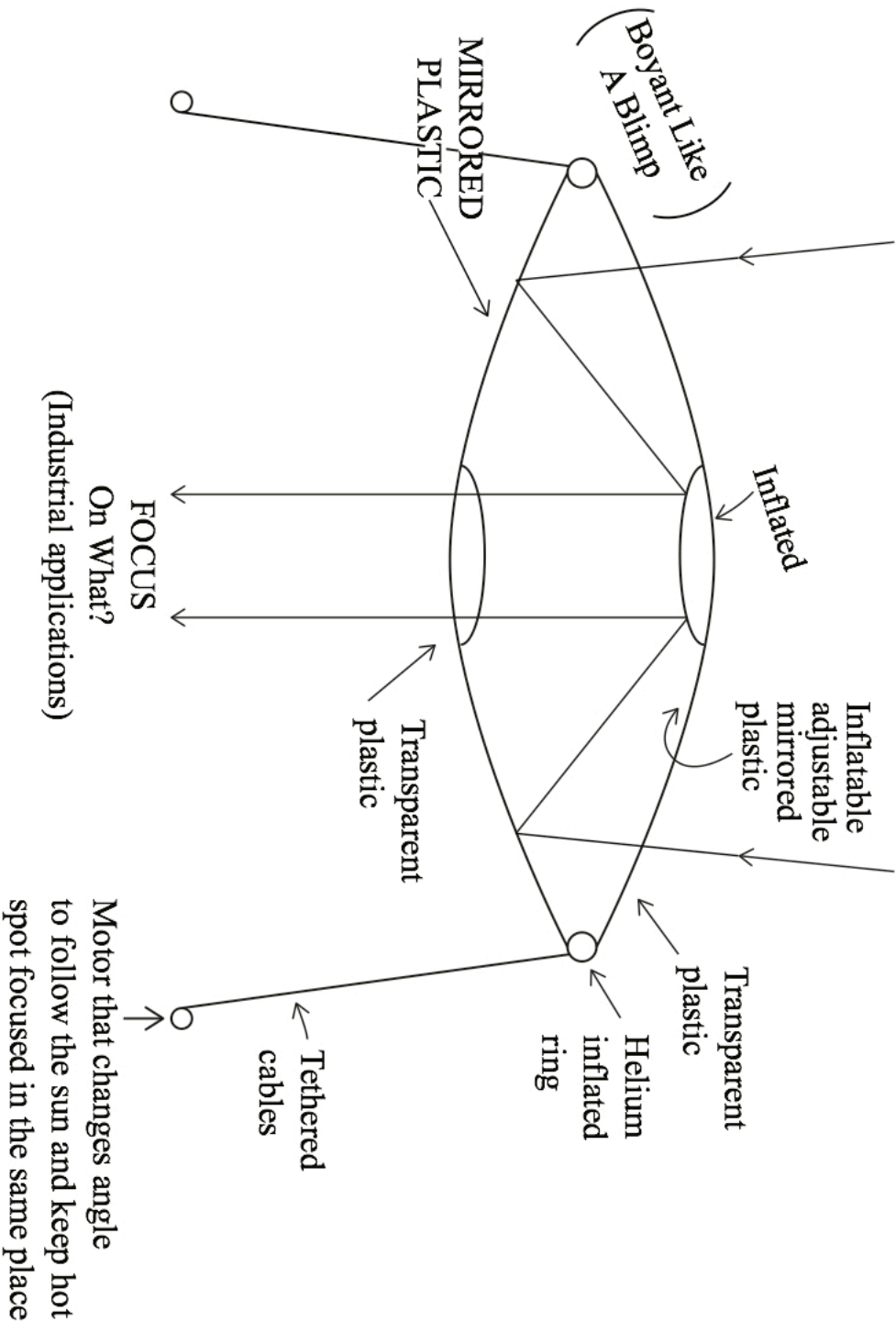


To increase thrust: Use a high puncture resistant material like unbreakable glass - I dont have that so I use plastic to demonstrate the motor works. With high puncture strength glass the voltage

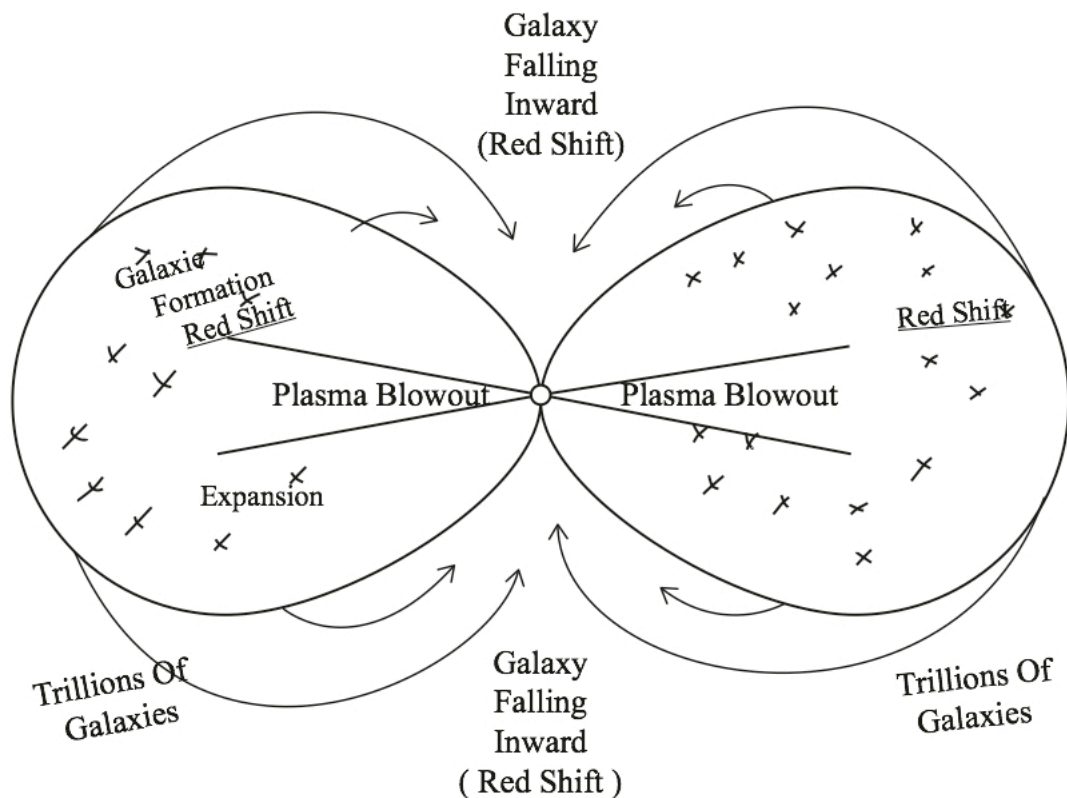
← thrust can be increased; intensifying the flow

If the frequency is increased, the needle points needed to protrude resulting in a smooth surface. If the needle points are in any holes a gas can be pumped in and the kind of gas results in a color or glow. That's why UFOs can change color. why AC? It's easier to build lightning powerful AC generators eliminating a lot of headaches associated with DC thrust motors.

BOUYANT LIKE BLIMP



Super massive black hole at the center of the material universe



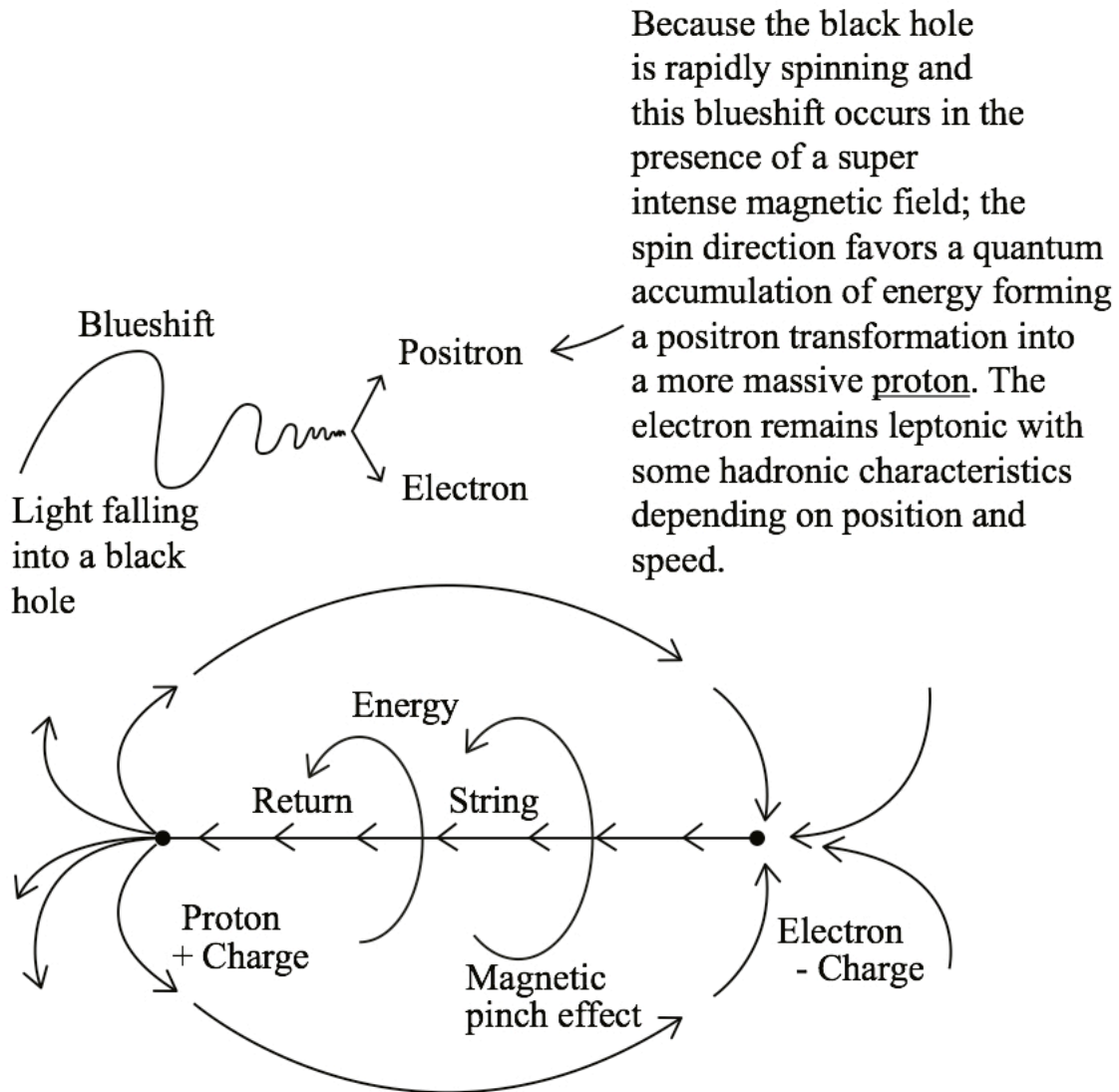
What falls in gets disintegrated and exits as a plasma blowout (inverse entropy)
STATE OF THE UNIVERSE: Perpetual Steady State Kaleidoscope
(ever changing - ever changeless overall)

The Big Bang Theory is false. Einstein intuitively believed in the steady state theory but did not know how to integrate the Hubble redshift. This integrates the Hubble red shift in Einsteins Steady State Universe Theory.

An American Astronaut on the moon dropped a stone and a feather. Both landed at the same time as in a similar experiment in a vacuumed chamber here on earth. The Cosmol-ogists intent on pushing the Big Bang theory on the masses have been proven wrong but don't want to give up their theory. How did this experiment prove them wrong? Over vast distances the hubble red shift is caused by the fact that if one of the two objects was separated by an immense distance, wether the two objects were traveling upward or downward their respective distance would change. Either way scientists would see what they call red shift.

Electric Field String

The universe can be compared to a hologram without being that per se. Here is an electric field string. Strings closed loop form up and down quarks.

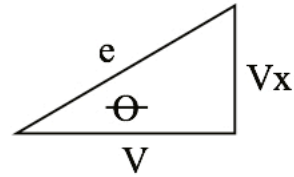


The magnetic field blowout at opposite ends of a black hole is like a repulsive spring for plasma making a black hole a messy eater. At the center of the universe the black hole is so big what falls in is in balance with what falls out - like an automatic valve on James Watt steam engine.

Einstein's Lorentz radical is a fudge number derived
from vector trigonometry
it's goofy

$$e^2 = V^2 + V_x^2$$

$$\frac{V^2 + V_x^2}{e^2} = \frac{e^2}{e^2} = 1$$



$$\frac{e^2 - V^2}{e^2} = \frac{V_x^2}{e^2}$$

His $M, = \frac{M_0}{\sqrt{1 - \frac{V^2}{e^2}}}$ Is what?

$$\sqrt{\frac{e^2 - V^2}{e^2}} = \sqrt{\frac{V_x^2}{e^2}} = \frac{V_x}{e}$$

$$\sqrt{1 - \frac{V^2}{e^2}} = \frac{V_x}{e}$$

For numbers to not be
imaginary - They must refer
to something both real
and measurable.
Math is a language of
numbers. In any language
it's possible to tell a fib.

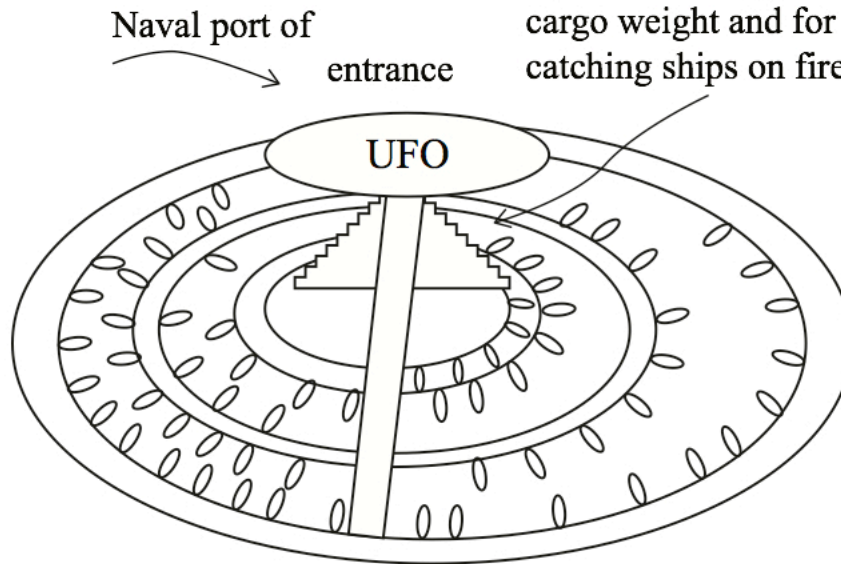
Nuts,
The rest mass doesn't change
m, is about the energy con-
served it takes to accelerate
or decelerate a rest mass
where is it conserved?
In the higgs field which is not
mass.

10,000 BC

Poseidon Verso Hare Krishna
(Atlantic) (India)

Nuclear War

Pyramid for supporting the UFO
cargo weight and for blast not
catching ships on fire.



THE SEA

The UFO's took in the merchandise from sails ships in the harbor and transported to the interstellar spaceship fleet.

One of these off the coast of the equatorial Africa. Another in America.

Another in the mediterranean.

Several around the world.

Lab Notes:

Question: On the Faraday motor tubular configuration demonstration. What causes the buzzing sound?

Answer: The buzzing or frying egg sound is charged molecules breaking the sound barrier.

Question: Ion lifters are criticized as being too weak.

Answer: Nonsense. The atmospheric ionic motors I demonstrated are weak because I got the transformers from the junkyard designed for other applications.

Those kinds of motors help engineers design the toroid bevatron. That thruster can generate lethal high accelerations that would squash an astronaut like a bug under foot which is why I emphasized fail safe design to prevent too many protons from being released at once. Ohm's Law says in a series DC circuit the ampere reading is the same. The ampere is derivative how many charged particles pass a reference point per sec. That's like comparing people walking in parallel and in single file. The result? In a copper wire a lot of electrons in parallel passing per second must equal the number of electrons single file in the arc passing per second for the ampere to be the same. The speed the electrons reach across one cm arc at 8000 volts potential is enough to generate X-rays near single file because of the magnetic pinch effect while in a wire their speed in parallel is about one meter per hour. That's why get such a high X-ray reading. My Geiger counter reads high.

Little Rock, Arkansas (Page 1)

Author note:

During the early 1970s Gene Watson build a gear reduction flying saucer while living in Arkansas. He befriended a Dr. Bronco at Arkansas Polytechnic College that helped him build the saucer.

The ten foot saucer of 1971 I built a special tow for it and I started building it under the supervision of Dr. Bronco Arkansas Polytechnic College and finished it in Little Rock Arkansas. Look on the map the distance between those two places.

He [Dr Bronco] had a doctorate degree in physics. I built some of the parts that went into the saucer with the University Lathe and he taught me their Wang Computer for calculations. His propulsion motor theories were ahead of the times and we discussed some of them.

Wylie, Texas years Mid 1980s (Page 2)

Author note:

During the mid 1980s while living in Garland and Wylie, Texas inventor Gene Watson tried to improve on his saucer concepts and was met with what he claims was city interference. This is when Gene Watson claims to have made a breakthrough ion propulsion. He was in correspondence with DARPA and demonstrated his saucer to a representative of Ross Perot. When he was jailed his saucer and designs that were stored in a tornado shelter were hauled off and dumped in a landfill.

The bell skirt permitted me to take my time learning the controls before I floored the gas pedal to rise past treetop but the city of Wylie, Texas never let me finish building it. It was a ground effect vehicle with the capacity to leave vertically ground effect after the pilot built up enough confidence.

This is proof I was in correspondence with DARPA when Wylie ordered the destruction of my four yard wide flying saucer. On the list DARPA then sent me they wanted someone to invent was a brushless DC motor. As you can see, I went beyond that and eliminated the magnetic windings too. For the reason DARPA was searching to lay their hands on then AC motor I now have, and then US Embassy in Rome ignored my announcement two years ago I had one, it's probable DARPA found another talented individual before or after Wylie's interference in my attempt to discover that motor. When the City of Wylie had me detained in jail to have my four yard wide cut to pieces and taken to Flash Gordon's junkyard. What the City of Wylie didn't know before that incident a representative of one of the richest person in Dallas, Texas who later ran for president of the United States personally inspected my flying saucer.

I was registered in Collin county as a business that went by the name "VESCIO RESEARCH". I was in correspondence with the military agency called "DARPA" and they wanted me to discover how to build the AC ionic motor I now have, but then didn't.

I was very close to making that discovery. To do that it was first necessary to build a DC ionic thruster seen in this picture . I had to use DC to discover how positive ions compare with negative ions before

moving on to an AC device and I was doing that in the Wylie tornado shelter days before I was arrested.

The four yard wide saucer served the purpose of cleaning ground obstacles with ducted fan liftoff to see if I could push the saucer forward on ionic motor thrust for DARPA to see.

What DARPA was really trying to do was to discover the most talented individuals in the country in this area of coming up with innovative ideas that served the country.

The City of WYLIE acted like the mob that sought to hand Leonardo da Vinci for his parachute invention.

The Sachse, Texas Saucer (Page 3)

This is a better flying car design for several reasons. The flat screen for looking down is superior to a glass window for night landing because electronics makes special cameras see better. Electronics gives automatic stability not necessitating the rotors be above center of weight. The location of the forward fans permits the saucer to angle like an airplane wing cutting down on fuel consumption. The large intake cuts down on fuel consumption. The forward fans can have hands grid so nobody on the ground can stick their hands in. The forward fans are hydraulic motors giving smoother speed control. The lift fans are planetary gear counter rotate innig eliminating undesired gyroscopic effects.

Propulsion Matrix (Page 17) I drew all the motors in the propulsion

matrix in the sense of representative example. The United States after confiscating Nazis jet airplanes spent in the 20 year successive more than the development of the atomic bomb to improve the Nazis jet engine. That's just one motor in the propulsion matrix. All this makes into an interesting book that can be copyrighted and sold. You can computer draw the rough sketches. If the United States wants to keep that a secret or make a false claim I disclosed their secret research, they will have a tough time explaining how I acquired all those motor designs without so much as setting foot in Area 51.

I gave the ex mayor of Grand Prairie, Texas the propulsion matrix a little after you was born [1975]. From that it is not difficult to come up with the boron glass bevatron. It may have been included. Then also I gave copies to an American Indian where I worked at Sunrise Industries and these people are practiced in business administration. It doesn't surprise me if some of those motors got secretly researched by the American Skunk Works with my name and identity dropped.

This partly explains some UFO Sightings as an attempt by the Defense Department to perfect some of those motors.

I remember going to the Navy Base near mountain creek lake and handing over to a high ranking Navy Official the cluster rocket ramjet in the 1970's motor design.

Inventions Get Stolen

No matter what I invent, I make no money because in every case the idea gets rejected in my face and stolen behind my back. Bell

Helicopter in Hurst, Texas told me 40 years ago the only outside offer was from the founder of Bell Helicopter and threw my flying car design in the trash can about as advanced as the Secchi drawing. We were both snubbed. Dr Bronco was smarter than me. Then the Russians their superior pump snubbed by NASA. Dr Ruby of Italy also snubbed by NASA for his americium nuclear rocket. Big companies want to steal from others or originate their own designs without paying anyone except their own employees. The smartest intellectual in the United States that topped Einstein was assassinated in the 1930's for being too smart. His name? Tesla.

Handed To German Engineers

I forgot to tell you. Here in Italy after demonstrating an ionic motor sponsored by Dalbe Sky Cranes (former employer) in his reception room, I handed over a copy of the propulsion matrix to some German Engineers around 1998 and never heard from them again.

Giving Ideas Away

In answer to your question, why did I give the designs away. Look at the big picture. Man is born to be wild-not in the criminal behavior sense. We are civilized Klingons where savage blood is not Conan the Barbarian but to rise to the challenge of the survival of the species in a savage universe that tries to kill us off. Those designs for having been given away survived Wylie, Texas madness to strip me of everything I owned. I knew this solar system is dirty with asteroids and comets and it only takes one big event to set man back to the chimp. So by

sacrificing my own monetary interest I contributed to advancing research into advanced propulsion motors in the interest of the survival of the human race in the hope the hardware would be developed in time to have man self-supporting on more than one celestial body.

Generalized Sketches

All my advanced propulsion motor as generalized designs are free. I don't want even a penny from anyone. Organizations that transform generalized sketch of that nature are really the inventors of their product and if the government wants to keep something secret, it's in the detail that belongs to the producer, not in my generalized sketches. The neat thing about generalized designs is the impossibility of back tracking who had that idea first. Look at the art in Latin America that can be seen only from the air. Who saw it from the air? A big kite can lift a man by a rope tied to a stake. Then after the wind gives altitude he let's go of the rope and glides down. There are thousands of inventions that were not invented first in Europe or America but lost to history and re-invented.

The Patent Problem

Here in Italy it costs 50 thousand euros to patent something simple. That only gives the Chinese an advantage. They buy production machinery and flood the markets with finished products with no regard for patent laws outside China. Einstein worked in the United States Patent office as a German citizen during Hitler's rise to power. It was legal spying but because Hitler treated him like shit, he became

a real American.

NASA Rejection

Years ago Russia declared to NASA a new pump design. NASA rejected it. Russia responded by transporting their Rocket with its new pump to Cape Kennedy in Florida and NASA launched it. It went orbital on less fuel consumption.

Large Chemical Burn Rockets

If I sent you a variety of advanced propulsion motor designs, my emphasis on large chemical burn rocket boosters doesn't seem to make sense. Actually it makes a lot of sense by reason the chemical rocket motor is well developed. For this reason the chemical burn rocket motor is in the hands of the major countries and there is an undeclared but very real race off this planet. The United States does not have the luxury of time. The large chemical burn booster rockets are needed to set up industrial facilities on the moon and Mars while the other motors take the back burner for their time will come.

Otherwise the iron hand will be set up that stops any rocket launch from succeeding if one country obtains too big a lead over the others in space (illustrated in SDI-Star Wars no access to space without permission of the dominant fleet).

Why Mars?

An American astronaut suggested some 30 years ago an orbit to

orbital reusable shuttle that would pick up and drop off the landers. That shuttle would slowly rotate for artificial gravity. The idea got rejected.

For the reason NASA rejected that astronaut's idea to have an orbit to orbit spaceship that rotates for artificial gravity, the moons of Mars are needed to provide shade against the solar wind. The problem is not for the astronauts that land but the ones still in orbit and remain in orbit for months. The solar wind charged particles come to an abrupt stop by collisions with the spaceship hull. That results in X-rays that penetrate inside the spaceship if it is small. I demonstrated that by putting a Geiger Counter near a 8000 volt AC arc I used as a cigar lighter. If it is a big rotating spaceship in Mars orbit, no significant radiation problem and Mars moon shadowing not needed.

What many don't realize is what makes land on Mars valuable and the moon is people's feet. Can you walk on it and construct cities, etc?

More briefly accessibility. If so Government money backed by industrialized real estate etc. causes the space program to operate at a profit eventually.

A woman that gets pregnant in a weightless and remains in weightless all the way to delivery-the baby won't live. To stay in space a long time requires taking that astronaut seriously.

The undeclared race for Mars is not like Neil Armstrong 1969 first on the moon and after a few more missions the congress canceled the program. Russia isn't backing down as happened in the race for the

moon. ESA is also developing that capability and China is trying to catch up from behind. Why? Because access to real estate has monetary value translated into backing monetary currency with titles to real estate, mining operations, industry, etc. like Alaska has more value now than when Russia sold the land to the Americans. It's a land grab bigger than the gold rush to California. All that is dependent on means of transport or space travel hardware. The real value is not in my rough sketch motors but translation into detail. Rough sketch is trail blazing.

Nuclear Fusion For Space Travel

The nuclear fusion reactor in Southern France [ITER] is the size of a cube the height, width, and length of a four story building. The concept is very simple and a crude sketch a child in elementary school could draw, but the devil is in the detail. To go from sketch to detail results in a lot of complexity.

The breakthrough was the earlier break even reactor built and tested a decade ago using ordinary copper wire coils.

The results permitted engineers to predict the substitution of superconducting coils resolves the problem but doing that isn't easy. The engineers think they have the answer and that is what this reactor is out to demonstrate but won't reveal the details.

Greedy capitalist don't want a cheap substitute for petroleum because of investments in the petroleum industry. With a nuclear fusion reactor generating 5 megawatts, there is an embarrassing choice of chemical

fuel that can be made. All this is interrelated. Big boosters, energy source past Mars, high ISP rockets, an asteroid defense shield, and the eventual evolution of interplanetary spaceships into interstellar. All this greedy capitalist are against. They want their profits today by bribing politicians and by impeding new technologies that would compete with petroleum.

The radioactive waste for nuclear fusion reactors is virtually non existent and well managed. In contrast nuclear fission for an interstellar spaceship would be a nightmare. Two deuterium fusion collisions create one stable helium atom not radioactive. Fission is chain reaction, messy and dangerous. Fusion is clean, not chain reaction (in the sense controlled fusion reactor for electrical power where chain reaction is excluded).

Deuterium has one neutron. Tritium has two neutrons. A free neutron transforms back to a proton by releasing its electron in about 15 minutes. Radioactivity has to do with nuclear instability by more or less neutrons than what the stable element has in its nucleus. At the heavy end of the periodic table, the bigger the nucleus, the closer in the electrons shells leading to instability.

An earth sized moon of Saturn has methane oceans. It's not feasible to transport that methane here. With deuterium and tritium that's different. The amount of hydrogen gas that would fill a 4 foot weather balloon made of deuterium or tritium hydrogen in nuclear fusion reactor generates about 20 megatons hydrogen bomb except that the reactor is designed to nuclear fuse that amount of hydrogen gradually generating 5 megawatts continually night and day.

The correct word is not helium 3 but tritium. Deuterium is a hydrogen atom with a neutron. Tritium is a hydrogen atom with two neutrons in the nucleus. A neutron is a proton with an electron smeared on its surface in mesonic bond exchange.

To make the long story short most hydrogen atoms have no neutrons but those that do extracted from water is fuel for nuclear fusion reactors like the one being built in Southern France. It was supposed to go into operation in 2012 but funding cuts is delaying until 2018. That is a big thing in space. It takes a nuclear fusion reactor for interstellar travel because of the abundance of hydrogen in ice low gravity worlds, comets, Oort clouds. On the moon the trapped ice is richer in deuterium, tritium than water here on earth, may also be the case for Mars. With superconducting coils replacing conventional coils, the toroid nuclear fusion reactor is expected to generate from 10 to 50 times the energy that is used to make it work.

UFOs And Science

Question: Does antigravity exist described in UFO sightings?

Any alien UFO accelerating faster than 8 g is drone. Gravity is not space curvature but an energy attractive field. The existence of energy in a void doesn't affect the void in any way. They can't star gate.

UFOs and Protons

A proton traveling at 90 percent light speed has a kinetic energy storage similar to a antimatter particle at rest only that it's much safer

to manipulate protons. Does that explain why some UFO phenomena has to do with electricity? Charged particles in motion is current flow from the perspective of ohms law. Ohms law doesn't care if it's electrons or protons in flow.

Remember the oval UFO without intake or exhaust holes whose entire surface is smooth and no windows? It uses for propellant mass less than one gallon of drinking water like what you get from the water faucet. With that it can accelerate vertically at 8 g with a manned crew and arrive at the Oort cloud in only a few days. In 1942 above Los Angeles one of these allowed allegedly if the report is correct, to be bombarded by anti aircraft fire without returning fire as a test of its ability to stop any hostile fire bullet or shell. Why? Because in interstellar space that capability is used to blaze a clear trail ahead of the interstellar fleet. I know how that motor works and I'm not talking.

The Radiation Problem In Outer Space

As for the radiation problem for small spaceships, that can be reduced if the outside hull is carbonized resin like the material of the SR-71 hull.

SETI

SETI did pick up some alien transmissions but did not know how to identify it because scientists still push the dumb idea that the aliens are only a few thousand years more advanced and live on some goldilocks planets. The nearest being 12 light years from earth. The authentic signal when they pointed the telescope was not from any

stellar system but from interstellar space and SETI dismissed it. The aliens were not intentionally trying to contact us but transmitting to another of their own spaceship computer talk and the line of transmissions for a brief period was pointed in our direction.

The aliens use an electron bevatron with electrons passing through a magnetic culmination for highly directional transmissions not interceptive as the communication is in between interstellar spaceships in space and we don't know how to design a receiver even if we could put the receiver between two interstellar spaceships. Lower frequencies is rarely used. It makes sense interstellar spaceships exchange information by directional transmissions to check on the integrity of data banks to assure repairs on such things as their nuclear fusion power source is defect free carried out mostly by robotics. The last thing the aliens would want to attempt is an omnidirectional transmissions saying we are here. SETI should spend more time dreaming what they would expect to find on an interstellar spaceship. Their concept of finding an earth like planet in the beginnings of space travel is 1930 outdated Flash Gordon fiction.

There are other planets in this galaxy with civilizations in the beginnings of the development of space travel hardware but none close enough for SETI radio interception. It should have been obvious to Drake the more advanced civilizations have explored farther out from the planet of their ancestral origins and hence more probable to have discovered this planet first, but for being more advanced, more offended by the criminality on this planet hence more elusive toward us.

The aliens don't want to send us messages. Their contacts are informal. They don't want to establish formal contacts with so many criminal minds on this planet. They detest the idea of enslaving the masses and are not out to take advantage of anyone. They have no intentions of conquering this planet and have no intentions of interfering with man's technological progress.

SETI is founded on a pseudoscience belief the aliens wish to establish contacts with us with old outdated communications like Marconi radio. Scoffers at interstellar travel Spaceships won't consider the obvious. The aliens concentrated on perpetual maintenance after perfecting nuclear fusion power sources and advanced propulsion devices for their interstellar spaceships. Their Interstellar spaceships is their permanent home. They are not seeking to take possession of another earth like planet. The abundance of matter in the galaxy does not necessitate finding another earth like planet in another stellar system before they can refuel or make repairs. The alien interstellar spaceship averages 30 kilometers diameter and inside is a lot of activity like what goes in New York to keep everything operating. What it is for is not to go from our solar system to another stellar system in less than 40 years, but for its inhabitants to exist and live normal lives. They not only have to keep their spaceship in repair, but also have to pass on the technology to successive generations like in a big city. It's all centered around the nuclear fusion reactor.

They have several inside that spaceship. In interstellar space the temperature outside the walls drops a few degrees above absolute zero. The ITER experiment in Southern France is that important. Man has to harness nuclear fusion energy or go the way of the dinosaur.

Greedy capitalist don't understand because a selfish mind is a monkey in his banana tree that looks out only for himself and that is why monkeys don't build cities.

Update: The nuclear fusion that uses laser power in California (Lawrence Livermore National Laboratory) was successfully tested on 14 February 2014. It generates more power than is used to fire up the lasers. In 1970 Dr. Bronco proposed the idea in a discussion with his physics students and afterwards somebody built it. The toroid nuclear fusion reactor is behind because of funding cuts and is more complicated. Either can be used for interstellar travel. The biggest problem is keeping the interstellar spaceship warm. In interstellar space without heat - air turns liquid. It takes several centuries to make either nuclear fusion dependable enough to attempt interstellar spaceships.

Aliens

The aliens are not ethically perfect. You have to imagine yourself living on an interstellar spaceship with at least 500 other families. That is an Indian tribe without a monetary system with the chief that distributes work and no one does without. It's higher ethics and not what the European invaders demonstrated when they stepped off the Mayflower in Jamestown.

The aliens enforce the prime directive not on us but on themselves to protect themselves. We are brain size behind them and their advanced technology in the hands of some earth ego maniac means interstellar spaceships that shoot at peaceful aliens like when Columbus planted

the Spanish flag on the western hemisphere and claimed all Native Americans savages to rob and exploit. That's coming from a really low mentality. Aliens don't want to shake hands with, much less share their advanced technology.

The only way aliens will trust humans is for us to catch up with them enough and that may take many centuries. Besides the alien interstellar spaceship in the solar system's Oort cloud intends to leave after completing repairs to be replaced by another. They don't find humans all that interesting.

US Space Command & The Secrecy Paradox

I'm one of the founders of the United State Space Command in the sense the idea was quite popular among intellectuals and I suggested the idea to the government. (I don't claim to be the first to have that ideal it was during the Ronald Reagan administration).

I know what the United States Space Command has but cannot reveal as a United States citizen anything branded secret. Nobody has come up to me representing any government to tell me to keep secret any of my motor sketches. If they had, I would have kept secret. It's a kind of paradox. Keeping a device secret does not guarantee with 7 billion people on this planet someone else doesn't come up with the same idea. Apparently the United States government doesn't know how to deal with this problem other than making arrests on bogus charges as happened to me and that didn't work. If they had asked me not to reveal this or that I would have complied.

Who's Who Book Year 2000

I was in the book of who's who as an advanced propulsion motor innovator in the year 2000 but felt I did not merit the recognition and had them drop my name later. I understand people who worked hard to get a university degree don't like to have some time clock low wage employee show them up. In fact I had an appointment with Vought Aerospace in 1977 and after I showed them a simple ionic thruster, they walked out without listening to the rest of what I had to say.

Glossary

AC/DC

adjective

alternating current/direct current.

aerodynamic

adjective

of or relating to aerodynamics: aerodynamic forces.

- of or having a shape that reduces the drag from air moving past: the plane has a more aerodynamic shape.

aerospike engine

noun

The aerospike engine is a type of rocket engine that maintains its aerodynamic efficiency across a wide range of altitudes. It is a member of the class of altitude compensating nozzle engines. A vehicle with an aerospike engine uses 25–30% less fuel at low altitudes, where most missions have the greatest need for thrust.

http://en.wikipedia.org/wiki/Aerospike_engine

afterburner

noun

an auxiliary burner fitted to the exhaust system of a turbojet engine to increase thrust.

americium

noun

the chemical element of atomic number 95, a radioactive metal of the

actinide series.(Symbol: Am)

Americium does not occur naturally and was first made by bombarding plutonium with neutrons. It has been used in industrial measuring equipment as a source of gamma rays.

ampere (abbr.: A)

noun

a unit of electric current equal to a flow of one coulomb per second.

antigravity

nounPhysics

a hypothetical force opposing gravity.

bevatron

noun

a synchrotron used to accelerate protons to energies in the billion electron-volt range.

celestial

adjective [attrib.]

positioned in or relating to the sky, or outer space as observed in astronomy: a celestial body.

centrifugal force

nounPhysics

an apparent force that acts outward on a body moving around a center, arising from the body's inertia.

CERN

abbreviation

European Organization for Nuclear Research.

chassis

noun (pl. same)

the base frame of a motor vehicle or other wheeled conveyance.

- the outer structural framework of a piece of audio, radio, or computer equipment.

coulomb (abbr.: C)

nounPhysics

the SI unit of electric charge, equal to the quantity of electricity conveyed in one second by a current of one ampere.

Corning Glass

Corning incorporated is an American manufacturer of glass, ceramics, and related materials, primarily for industrial and scientific applications.

cyclotron

nounPhysics

an apparatus in which charged atomic and subatomic particles are accelerated by an alternating electric field while following an outward spiral or circular path in a magnetic field.

da Vinci, Leonardo

(1452-1519)

was an Italian inventor, artist, architect, and scientist

Dee

semicircular electrodes, called dees from their shape: each is a D-shaped half of a pillbox.

deuterium

noun Chemistry

a stable isotope of hydrogen with a mass approximately twice that of the usual isotope. (Symbol: D)

Deuterium atoms have a neutron as well as a proton in the nucleus, and the isotope is present to about 1 part in 6,000 in naturally occurring hydrogen. It is used as a fuel in thermonuclear bombs, and heavy water (D₂O) is used as a moderator in nuclear reactors.

diode

noun Electronics

a semiconductor device with two terminals, typically allowing the flow of current in one direction only.

- a thermionic tube having two electrodes (an anode and a cathode).

electron gun

noun Physics

a device for producing a narrow stream of electrons from a heated cathode.

electron volt (abbr.: eV, MeV)

noun Physics

a unit of energy equal to the work done on an electron in accelerating it through a potential difference of one volt.

emu

abbreviation Brit.

- electric multiple unit.
- electromagnetic unit(s).

entropy

noun

1 Physics a thermodynamic quantity representing the unavailability of a system's thermal energy for conversion into mechanical work, often interpreted as the degree of disorder or randomness in the system.

(Symbol: S)

2 lack of order or predictability; gradual decline into disorder: a marketplace where entropy reigns supreme.

equilibrium

noun (pl. equilibria)

a state in which opposing forces or influences are balanced: the maintenance of social equilibrium.¹

fusion

noun

- Physics short for nuclear fusion.

Fusion power is a primary area of research in plasma physics.

G

abbreviation

a unit of gravitational force equal to that exerted by the earth's gravitational field.

Gay-Lussac's law

Chemistry

a law stating that the volumes of gases undergoing a reaction at constant pressure and temperature are in a simple ratio to each other and to that of the product.

Geiger counter (also Geiger-Müller counter)

noun

a device for measuring radioactivity by detecting and counting ionizing particles.

ground

noun

electrical connection of a circuit or conductor to the earth.

ground effect vehicle

serves the purpose of cleaning ground obstacles with ducted fan lift-off

H II

noun

ionized atomic hydrogen, pronounced H-two by astronomers (an H I region being neutral atomic hydrogen, and H₂ being molecular hydrogen)

H₂

noun

Liquid hydrogen

http://en.wikipedia.org/wiki/Liquid_hydrogen

hadron

nounPhysics

a subatomic particle of a type including the baryons and mesons that can take part in the strong interaction.

helium 3

noun

the chemical element of atomic number 2, an inert gas that is the lightest member of the noble gas series.(Symbol: He)

Hubble's law

Astronomy

a law stating that the redshifts in the spectra of distant galaxies (and hence their speeds of recession) are proportional to their distance.

hull

noun

the main body of a ship or other vessel, including the bottom, sides, and deck but not the masts, superstructure, rigging, engines, and other fittings.

hypersonic

adjective

relating to speeds of more than five times the speed of sound (Mach 5).

infrared

adjective

(of electromagnetic radiation) having a wavelength just greater than

that of the red end of the visible light spectrum but less than that of microwaves. Infrared radiation has a wavelength from about 800 nm to 1 mm, and is emitted particularly by heated objects.

- (of equipment or techniques) using or concerned with this radiation: infrared cameras.

interstellar

adjective

occurring or situated between stars: interstellar travel.

/sp, ISP, Scientific Impulse

is a way to describe the efficiency of rocket and jet engines. It represents the force with respect to the amount of propellant used per unit time.

International Thermonuclear Experimental Reactor (ITER)

is an international nuclear fusion research and engineering project, which is currently building the world's largest experimental tokamak nuclear fusion reactor adjacent to the Cadarache facility in the south of France.

joule, joull(abbr.: J)

noun

the SI unit of work or energy, equal to the work done by a force of one newton when its point of application moves one meter in the direction of action of the force, equivalent to one 3600th of a watt-hour.

Large Hadron Collider

noun

The Large Hadron Collider (LHC) is the highest-energy particle collider ever made. It was built by the European Organization for Nuclear Research (CERN) from 1998 to 2008.

Lawrence Livermore National Laboratory
a US federally-funded research laboratory where nuclear fusion experiments are being carried out using lasers.

lepton

noun Physics

a subatomic particle, such as an electron, muon, or neutrino, that does not take part in the strong interaction.

lithium

noun

the chemical element of atomic number 3, a soft silver-white metal. It is the lightest of the alkali metals.(Symbol: Li) Lithium has important links to nuclear physics.

Lorentz force

nounPhysics

the force that is exerted by a magnetic field on a moving electric charge.

lox (also LOX)

noun

liquid oxygen.

en.wikipedia.org/wiki/Liquid_oxygen

Mach ~~lmäkl~~(also Mach number)

noun

the ratio of the speed of a body to the speed of sound in the surrounding medium. It is often used with a numeral (as Mach 1, Mach 2, etc.) to indicate the speed of sound, twice the speed of sound, etc.

pinch effect

nounPhysics

the constriction of a plasma through which a large electric current is flowing, caused by the attractive force of the current's own magnetic field.

planetary gear(also planetary wheel)

noun

see sun-and-planet gear.

plug nozzle

noun

The plug nozzle is a type of nozzle which includes a center body or plug around which the working fluid flows. Plug nozzles have applications in aircraft, rockets, and numerous other fluid flows.

http://en.wikipedia.org/wiki/Plug_nozzle

positron

nounPhysics

a subatomic particle with the same mass as an electron and a numerically equal but positive charge.

power plant

noun

an installation where electrical power is generated for distribution.

- an engine or other apparatus that provides power for a machine, building, etc.

proton

nounPhysics

a stable subatomic particle occurring in all atomic nuclei, with a positive electric charge equal in magnitude to that of an electron, but of opposite sign.

radioelement

noun

a radioactive element or isotope.

rarefied (also rarified)

adjective

1 (of air, esp. that at high altitudes) of lower pressure than usual; thin.

redshift (also red shift)

nounAstronomy

the displacement of spectral lines toward longer wavelengths (the red end of the spectrum) in radiation from distant galaxies and celestial objects. This is interpreted as a Doppler shift that is proportional to the velocity of recession and thus to distance. Compare with blueshift.

steady state

noun

an unvarying condition in a physical process, esp. as in the theory that the universe is eternal and maintained by constant creation of matter. The steady state theory postulates that the universe maintains a constant average density, with more matter continuously created to fill the void left by galaxies that are receding from one another. The theory has now largely been abandoned in favor of the Big Bang theory and an evolving universe.

sun-and-planet gear

noun

a system of gearwheels consisting of a central wheel (a sun gear or sun wheel) around which one or more outer wheels (planet gears or planet wheels) travel.

supersonic

adjective

involving or denoting a speed greater than that of sound.

ram air

noun technical

air that is forced to enter a moving aperture, such as the air intake of an aircraft.

ramjet

noun

a type of jet engine in which the air drawn in for combustion is compressed solely by the forward motion of the aircraft.

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string

noun

a hypothetical one-dimensional subatomic particle having the dynamical properties of a flexible loop.

- (also cosmic string)(in cosmology) a hypothetical threadlike concentration of energy within the structure of space-time.

subsonic

adjective

relating to or flying at a speed or speeds less than that of sound.

Tokamak

A tokamak is a device using a magnetic field to confine a plasma in the shape of a torus.

rest mass

nounPhysics

the mass of a body when at rest.

semiconductor

noun

a solid substance that has a conductivity between that of an insulator

and that of most metals, either due to the addition of an impurity or because of temperature effects. Devices made of semiconductors, notably silicon, are essential components of most electronic circuits.

toroid

nounGeometry

a figure with a shape resembling a torus.

- Electronics a coil shaped like a torus or doughnut.

torque

nounMechanics

a twisting force that tends to cause rotation.

traction impulse

Traction, or tractive force, is the force used to generate motion between a body and a tangential surface, most generally through the use of dry friction, though the use of shear force of the surface is also commonly used.

http://en.wikipedia.org/wiki/Traction_%28engineering%29

tritium

nounChemistry

a radioactive isotope of hydrogen with a mass approximately three times that of the common protium isotope.(Symbol: T)

Discovered in 1934, tritium has two neutrons as well as a proton in the nucleus. It occurs in minute traces in nature and can be made artificially from lithium or deuterium in nuclear reactors; it is used as a fuel in thermonuclear bombs.

tungsten

noun

the chemical element of atomic number 74, a hard steel-gray metal of the transition series. It has a very high melting point (3410°C) and is used to make electric light filaments.(Symbol: W)

ultraviolet

adjectivePhysics

(of electromagnetic radiation) having a wavelength shorter than that of the violet end of the visible spectrum but longer than that of X-rays.

- (of equipment or techniques) using or concerned with this radiation: an ultraviolet telescope.

Watt, James

(1736–1819), Scottish engineer. Among his many innovations, he greatly improved the efficiency of the Newcomen steam engine, which was then adopted for a variety of purposes. He also introduced the term horsepower.

X-ray (also x-ray or X ray)

noun

1 electromagnetic radiation of high energy and very short wavelength (between ultraviolet light and gamma rays) that is able to pass through many materials opaque to light.

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